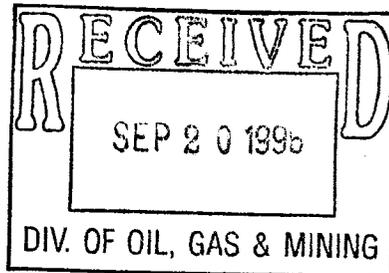




September 18, 1996

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078



**ATTENTION: Ed Forsman**

RE: *Tar Sands Federal #6-20*  
*SE/NW Sec. 20, T8S R17E*

*Tar Sands Federal #14-30*  
*SE/SW Sec. 30, T8S, R17E*

Dear Ed,

*Enclosed is the original, and two copies (each) of the Application for Permit to Drill, for the above referenced locations. Copies will also be submitted to the State of Utah.*

*Please contact me in the Roosevelt office (801 722-5103), if you have questions, or need additional information.*

Sincerely,  
  
Cheryl Cameron  
Regulatory Compliance Specialist

cc: ~~State of Utah~~  
Division of Oil Gas & Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Enclosures  
/cc

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO. U-74869
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL GAS SINGLE MULTIPLE WELL [X] WELL [ ] OTHER [ ] ZONE [ ] ZONE [ ]

7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Tar Sands Federal

2. NAME OF OPERATOR Inland Production Company

9. WELL NO. #14-30

3. ADDRESS OF OPERATOR P.O. Box 1446 Roosevelt, UT 84066 Phone: (801) 722-5103

10. FIELD AND POOL OR WILDCAT Monument Butte

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface SE/SW At proposed Prod. Zone 755' FSL & 1930' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 30, T8S, R17E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 10 Miles south of Myton, Utah

12. County Duchesne 13. STATE UT

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1930'

16. NO. OF ACRES IN LEASE 1968.01

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. 2751'

19. PROPOSED DEPTH 6500'

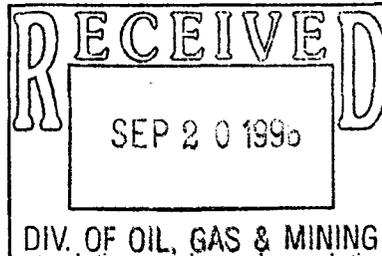
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5299.9' GR

22. APPROX. DATE WORK WILL START\* December 1996

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows include 12 1/4, 7 7/8 hole sizes and cement quantities like 120 sx Class G, 2% CaCl & 2% Gel.

The actual cement volumes will be calculate off of the open hole logs, plus 15% excess.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brad Mechem TITLE District Operations Manager DATE 9/12/96

(This space for Federal or State office use)

PERMIT NO. 43-013-31711 APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Petroleum Engineer DATE 10/28/96

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

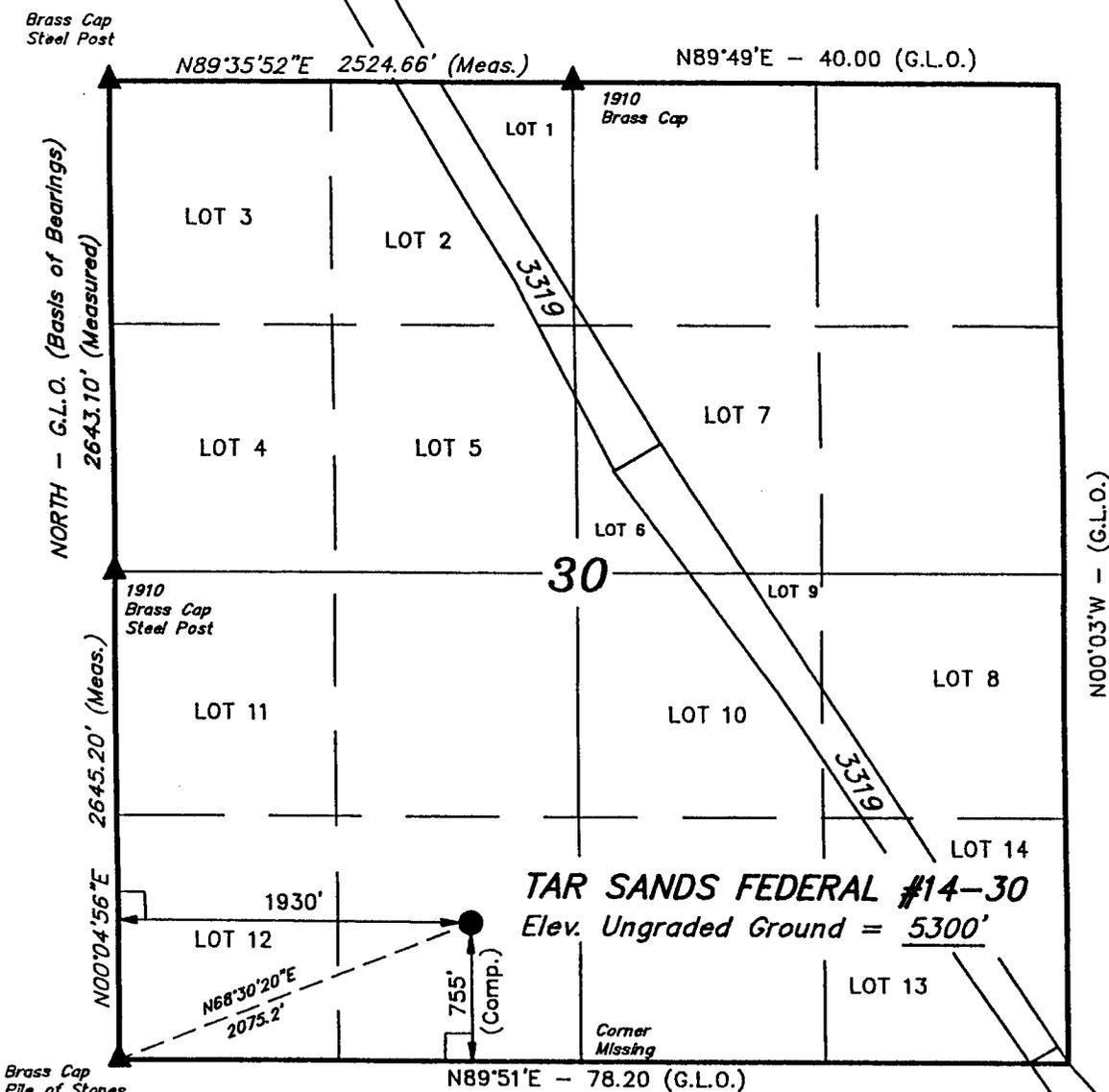
T8S, R17E, S.L.B.&M.

INLAND PRODUCTION CO.

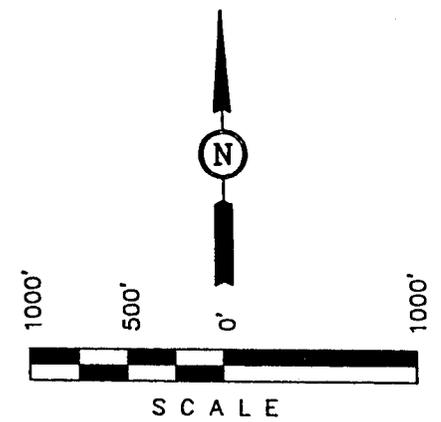
Well location, TAR SANDS FEDERAL #14-30, located as shown in the SE 1/4 SW 1/4 of Section 30, T8S, R17E, S.L.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 30, T8S, R17E, S.L.B.&M. TAKEN FROM THE MYTON SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5395 FEET.



N00°03'W - (G.L.O.)



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert J. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 181319  
 STATE OF UTAH

TAR SANDS FEDERAL #14-30  
 Elev. Ungraded Ground = 5300'

- LEGEND:**
- ⊥ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED

**UNTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 7-22-96	DATE DRAWN: 7-23-96
PARTY L.D.T. K.H. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER	FILE	

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #14-30  
SE/SW SECTION 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' - 3050'
Green River	3050'
Wasatch	6600'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 3050' - 6600' - & Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' KB (New)  
5 1/2" J-55, 15.5# w/ LT&C collars/ set at TD (New)

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operators minimum specifications for pressure control equipment are as follows:

A 8" Series 900 Annular Bag type BOP and a 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOPS's will be checked daily.

(See Exhibit F)

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

The well will be drilled with fresh water through the Uinta Formation. From the top of the Green River Formation @ 3050' ±, to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Clay inhibition will be achieved with additions or by adding DAP (Di-Ammonium Phosphate, commonly known as fertilizer). Typically, this fresh water/polymer system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromates will be utilized in the fluid system. The anticipated mud weight is 8.4 ppg and weighted as necessary for gas control.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Gamma Ray/Caliber from TD to base of surface casing @ 300' ±, and a Compensated Neutron-Formation Density Log. Logs will run from TD to 3500' ±. The cement bond log will be run from PBTD to cement top. An automated mud logging system will be utilized while drilling to monitor and record penetration rate, and relative gas concentration, in the fluid system.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence in December of 1996, and take approximately six days to drill.

**INLAND PRODUCTION COMPANY  
TAR SANDS FEDERAL #14-30  
SE/SW SECTION 30, T8S, R17E  
DUCHESNE COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Tar Sands Federal #14-30 located in the SE 1/4 SW 1/4 Section 30, T8S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and Utah State Highway 53; proceed southeasterly along Utah State Highway 8.5 miles to the beginning of the proposed access road, to be discussed in item #2.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 53 ends, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County Crews.

The aforementioned dirt oilfield service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads required for access during the drilling, completion and production phase will be maintained at the standards required by the BLM or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B".

The planned access road leaves the existing location described in Item #1 in the SW 1/4 SE 1/4 Section 30, T8S, R17E, S.L.B., and proceeds in a southwesterly direction approximately .2 miles  $\pm$ , to the proposed location site.

The planned access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road where is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be no water turnouts constructed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

There are nineteen (19) producing, and one (1) injection, Inland Production wells, and one (1) Dalon P&A well, within a one (1) mile radius of this well. See Exhibit "D".

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery the well pad will be surrounded by a dike of sufficient capacity to contain at minimum the entire contents of the largest tank within the facility battery.

Tank batteries will be built to BLM specifications.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Inland Production Company has purchased a 3" water connection with Johnson Water District to supply the Monument Butte oilfield. Johnson Water District has given permission to Inland Production Company to use water from our system for the purpose of drilling and completing the Tar Sands Federal #14-30.

Existing water for this well will be trucked from Inland Production Company's water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E), or the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E), or the Travis Federal #15-28 (SW/SE Sec. 28, T8S, R16E). See Exhibit "C".

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet - Exhibit "E".

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet - Exhibit "E".

A small reserve pit ( 80 X 30 X 6' deep, or less) will be constructed from native soil and clay materials. A water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the wellbore. Any drilling fluids which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel rig tanks. All drilling fluids will be fresh water based containing DAP (Di-Ammonium Phosphate, commonly known as fertilizer), typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

All completion fluids, frac gels, etc., will be contained in steel tanks and hauled away to approved commercial disposal, as necessary.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby waterflood, for re-injection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer, along with an application for approval of this, as a permanent disposal method.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the north between stakes 4 & 5.

No flare pit will be used at this location.

The stockpiled topsoil (first six (6) inches) will be stored on the northeast corner, between stakes 5 & 6.

Access to the well pad will be from the southeast corner, between stakes 7 & 8.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE

a) *Producing Location*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/ operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit will have all fluids and hydrocarbons removed.

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per B.L.M. and stated in the conditions of approval.

b) *Dry Hole Abandoned Location*

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the B.L.M. will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

- a) Inland Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Inland is to immediately stop work that might further disturb such materials, and contact the Authorized Officer.
- b) Inland Production Company will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. On B.L.M. administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without B.L.M. authorization. However, if B.L.M. authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Cultural Resource Survey will be submitted, as soon as it becomes available.

*Additional Surface Stipulations*

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations. Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. Inland Production is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

*Hazardous Material Declaration*

Inland Production Company guarantees that during the drilling and completion of the Tar Sands Federal #14-30, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Inland also guarantees that during the drilling and completion of the Tar Sands Federal #14-30, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Inland Production Company or a contractor employed by Inland Production shall contact the B.L.M. office at (801) 789-1362, 48 hours prior to construction activities.

The B.L.M. office shall be notified upon site completion prior to moving on the drilling rig.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham  
Address: P.O. Box 1446 Roosevelt, Utah 84066  
Telephone: (801) 722-5103

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Tar Sands Federal #14-30 SE/SW Section 30, Township 8S, Range 17E: Lease U-74869, Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

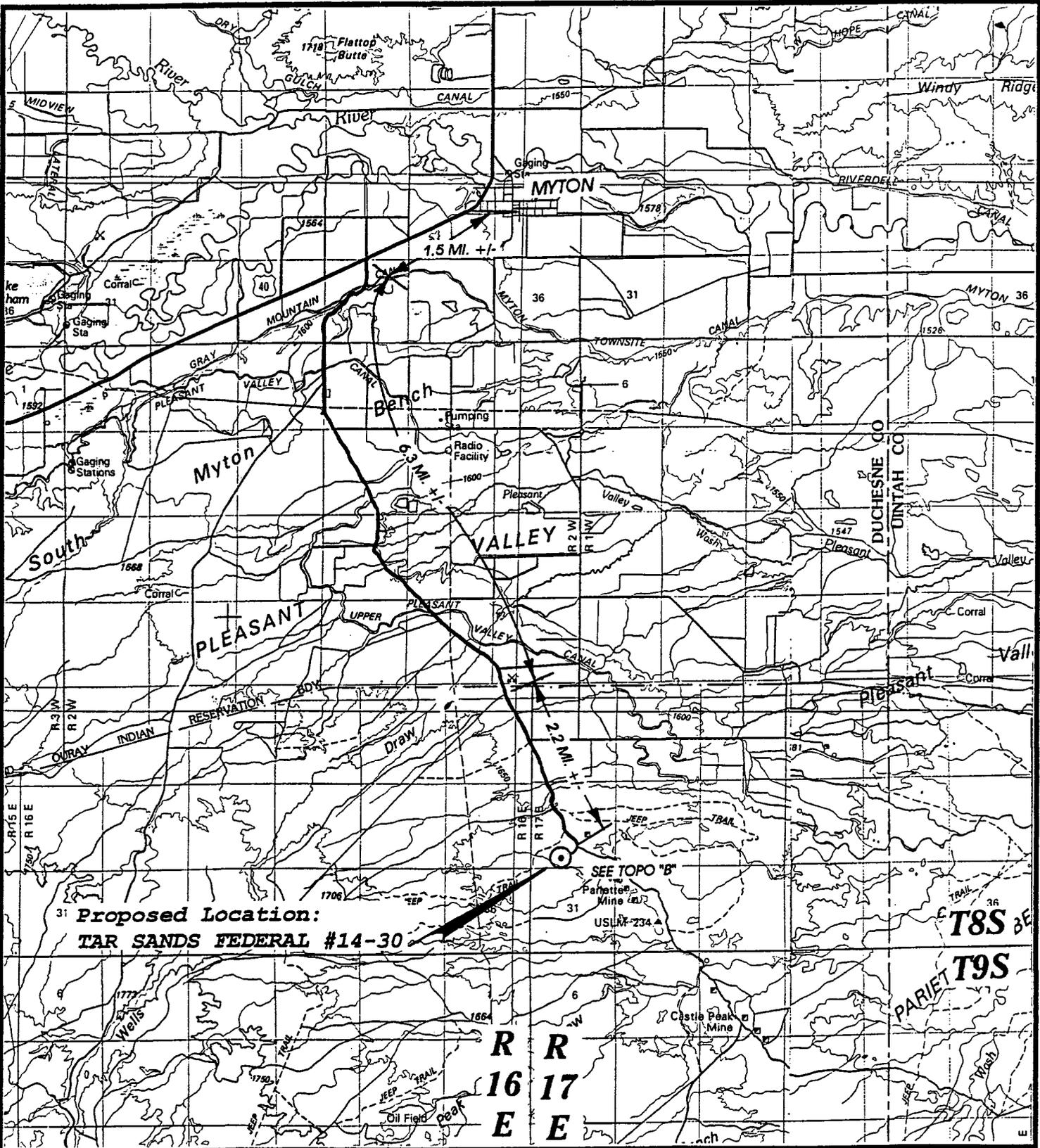
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

9-16-96

Date



Brad Mecham  
District Operations Manager



**TOPOGRAPHIC  
MAP "A"**

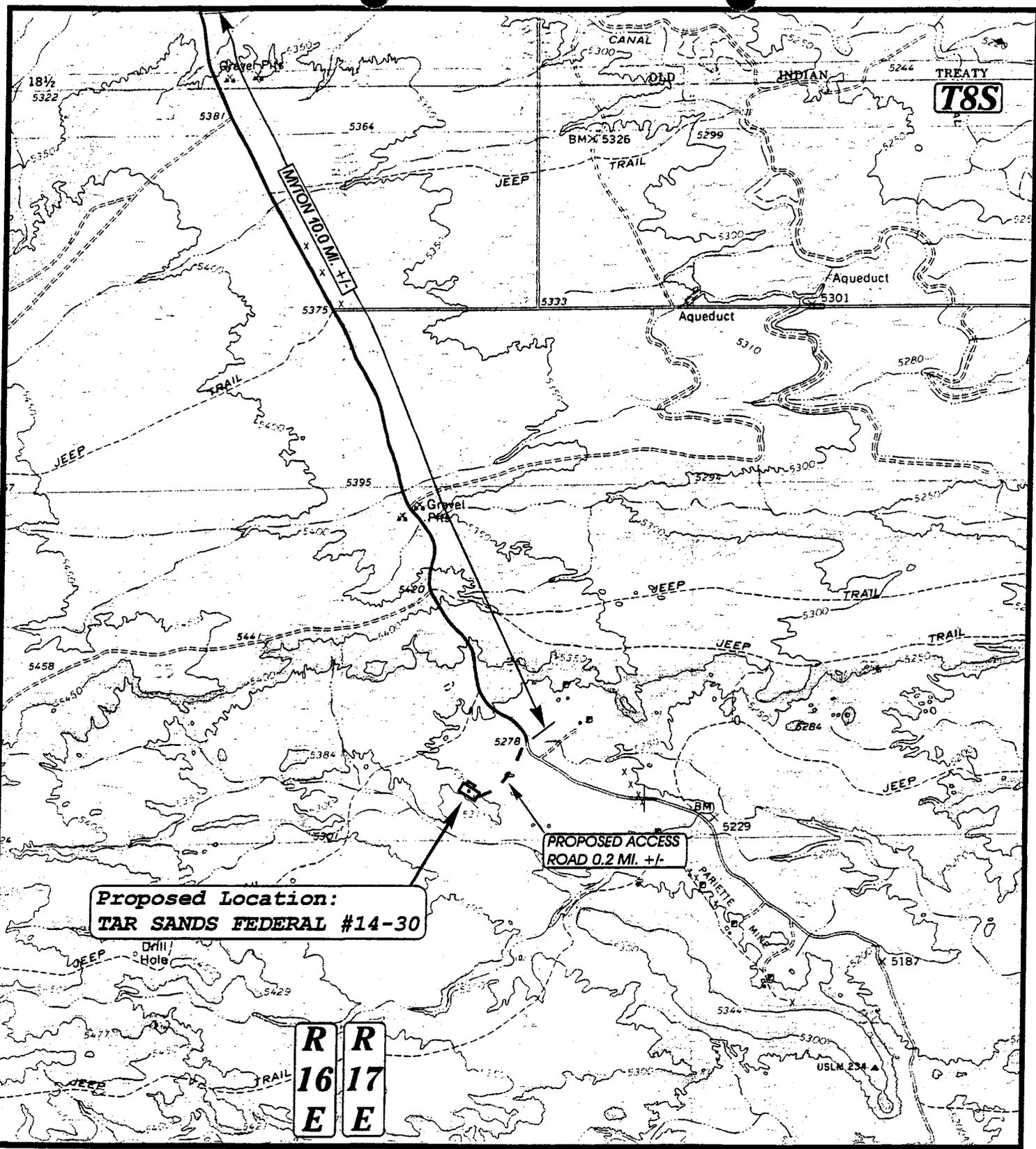
DATE: 7-23-96  
Drawn by: C.G.

**INLAND PRODUCTION COMPANY**

**TAR SANDS FEDERAL #14-30  
SECTION 30, T8S, R17E, S.L.B.&M.  
755' FSL 1930' FWL**



**UELS**



**T8S**

**Proposed Location:  
TAR SANDS FEDERAL #14-30**

**PROPOSED ACCESS  
ROAD 0.2 MI. +/-**

**R R  
16 17  
E E**

**UEIS**

**TOPOGRAPHIC  
MAP "B"**

**DATE: 7-25-96  
Drawn by: D.R.B.**

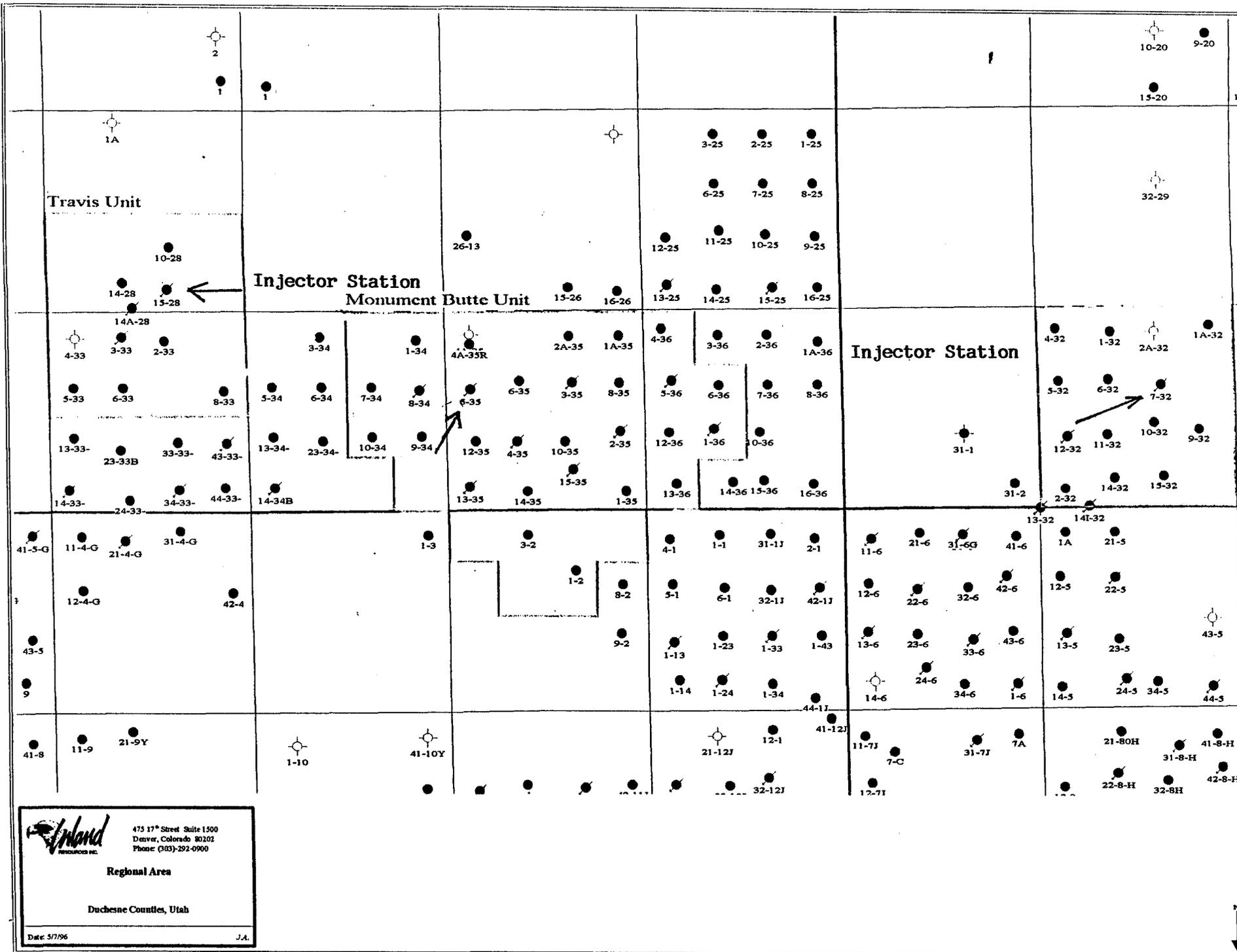
**INLAND PRODUCTION CO.  
TAR SANDS FEDERAL #14-30  
SECTION 30, T8S, R17E, S.L.B.&M.  
755' FSL 1930' FWL**



**UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 780-1017**

**SCALE: 1" = 2000'**

EXHIBIT "C"



**Inland Resources Inc.**  
 475 17<sup>th</sup> Street Suite 1500  
 Denver, Colorado 80202  
 Phone (303) 292-0900

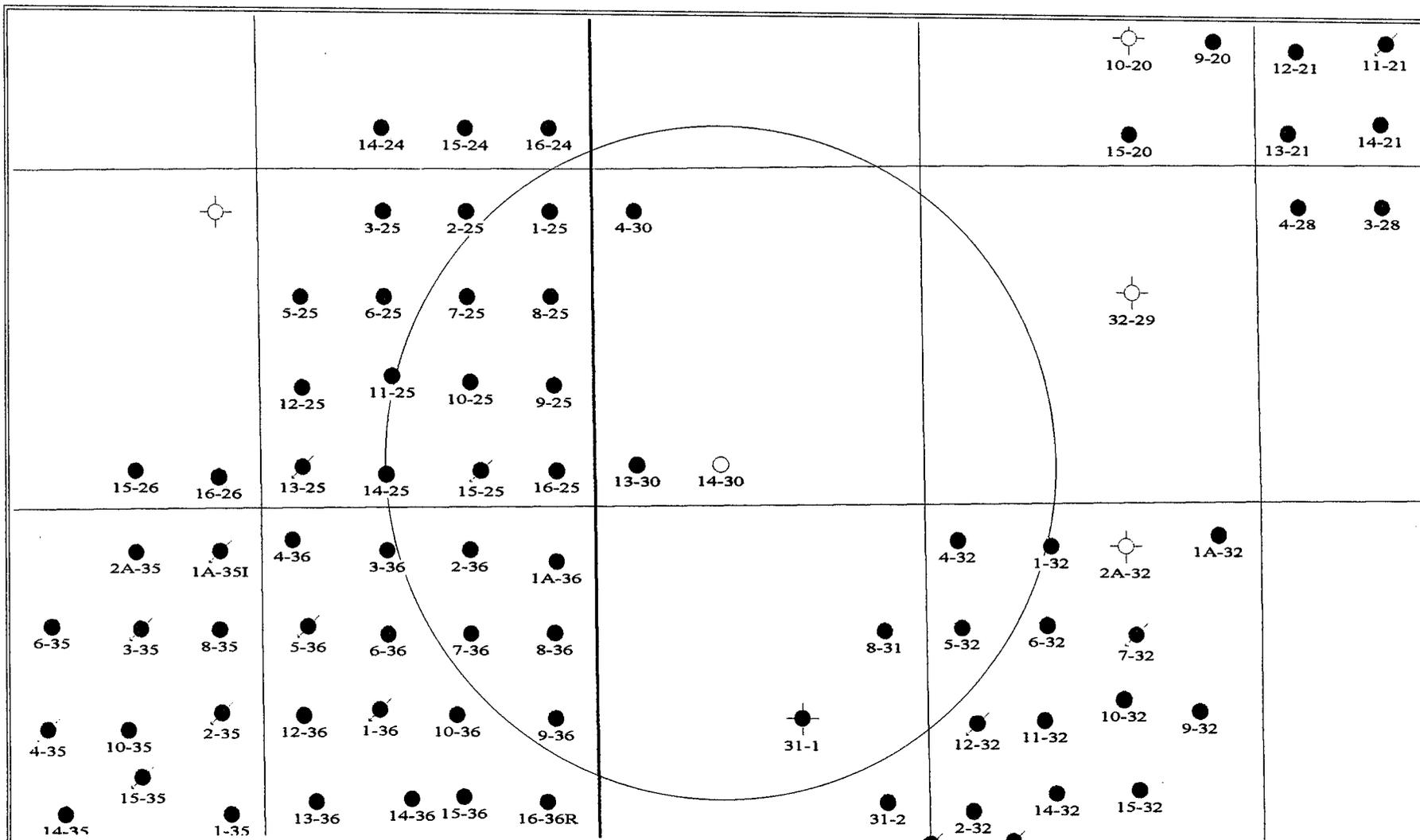
**Regional Area**

Duchesne Counties, Utah

Date: 5/7/96 J.A.



EXHIBIT "D"



**Inland**  
RESOURCES INC.

475 17<sup>th</sup> Street Suite 1500  
Denver, Colorado 80202  
Phone: (303)-292-0900

**Tar Sands Federal #14-30**

**One Mile Radius**

**Duchesne County, Utah**

Date: 7/17/96 .14

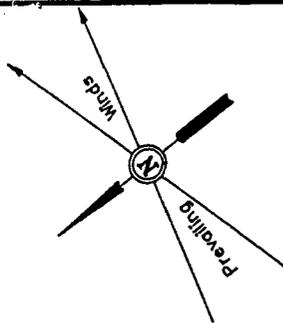


INLAND PRODUCTION CO.

LOCATION LAYOUT FOR

TAR SANDS FEDERAL #14-30  
SECTION 30, T8S, R17E, S.L.B.&M.  
755' FSL 1930' FWL

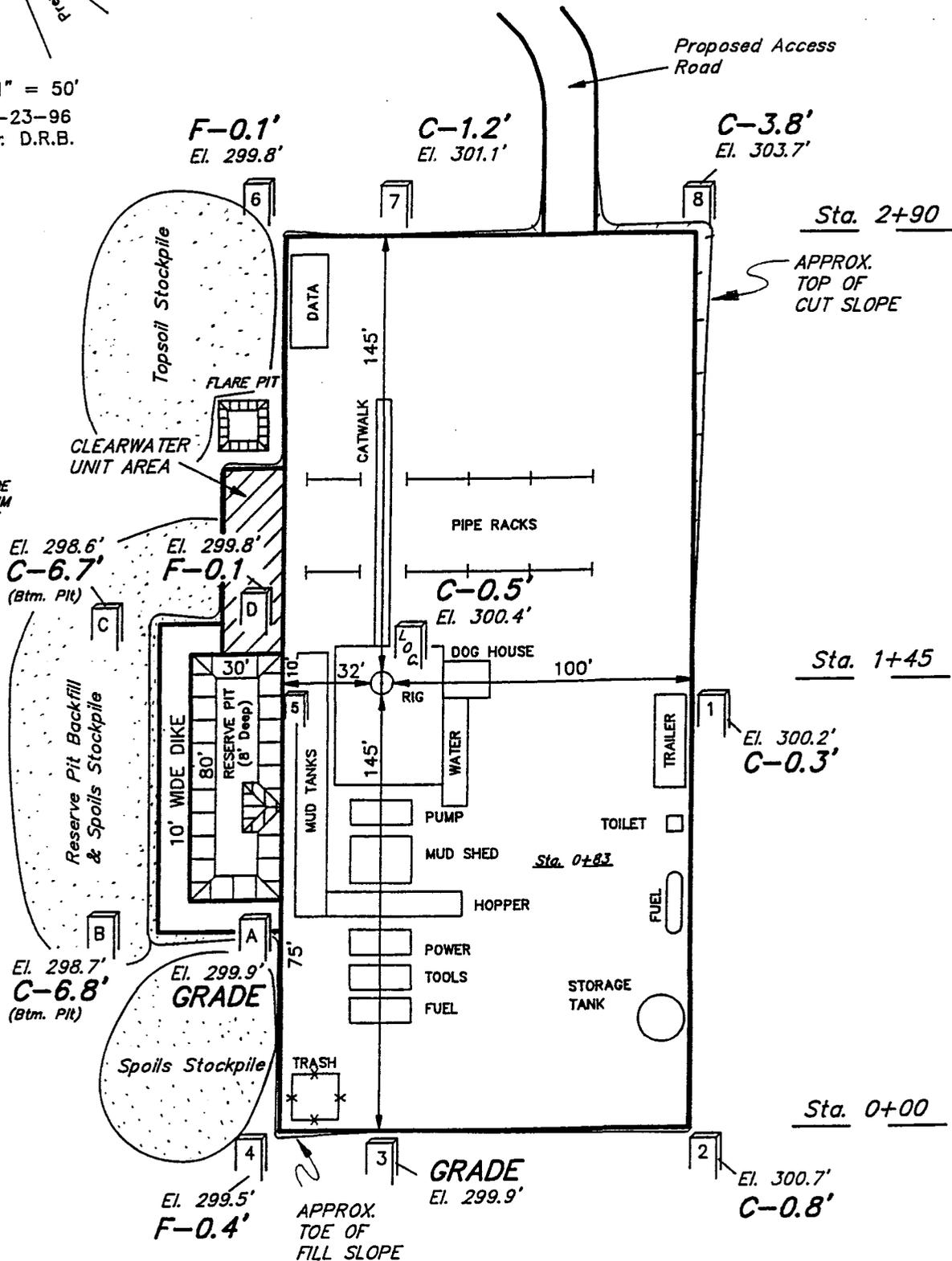
*Handwritten signature*



SCALE: 1" = 50'  
DATE: 7-23-96  
Drawn By: D.R.B.

**NOTE:**  
FLARE PIT IS TO BE LOCATED A MINIMUM OF 125' FROM THE WELL HEAD.

**NOTE:**  
PIT CAPACITY WITH 2' OF FREEBOARD = 1,500 Bbls.



Elev. Ungraded Ground at Location Stake = 5300.4'  
Elev. Graded Ground at Location Stake = 5299.9'

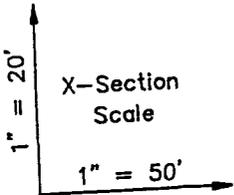
**I AND PRODUCTION CO.**

**TYPICAL CROSS SECTIONS FOR**

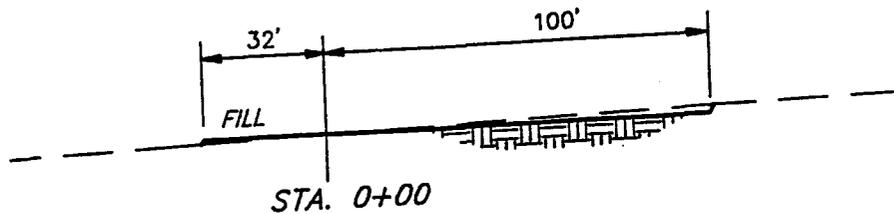
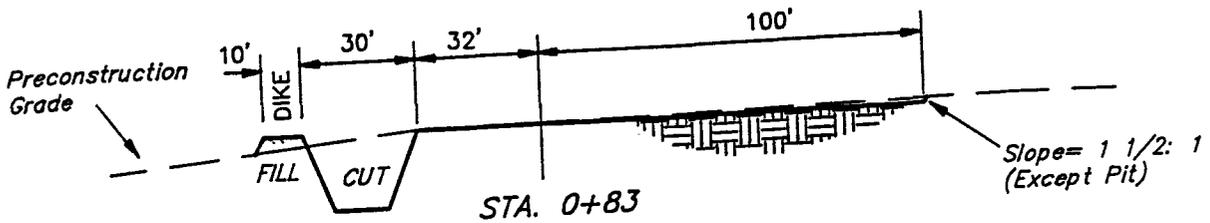
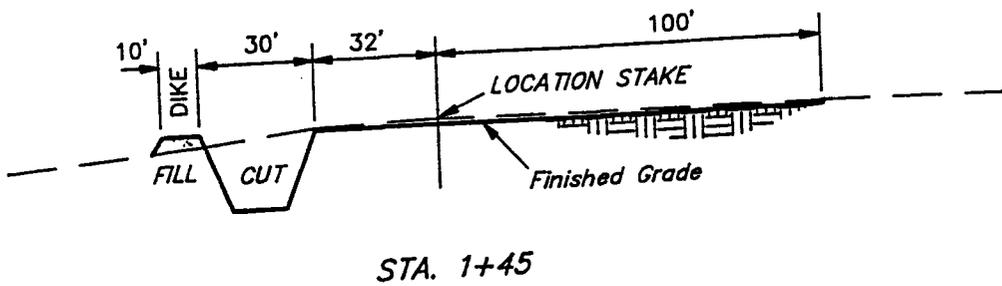
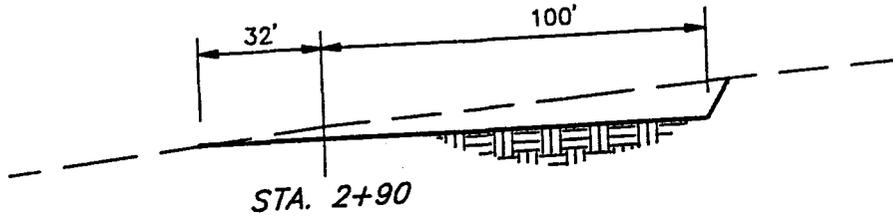
**TAR SANDS FEDERAL #14-30  
SECTION 30, T8S, R17E, S.L.B.&M.**

**755' FSL 1930' FWL**

*Handwritten signature*



DATE: 7-23-96  
Drawn By: D.R.B.



**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

CUT		
(6") Topsoil Stripping	= 750	Cu. Yds.
Remaining Location	= 860	Cu. Yds.
<b>TOTAL CUT</b>	<b>= 1,610</b>	<b>CU.YDS.</b>
<b>FILL</b>	<b>= 280</b>	<b>CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,320	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 990	Cu. Yds.
EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed	= 330	Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

RAM TYPE B.O.P.

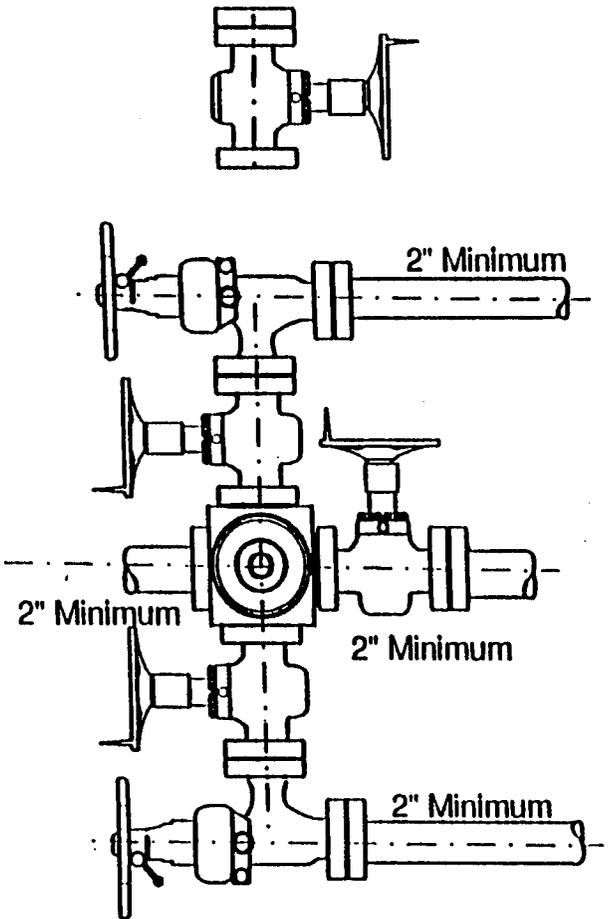
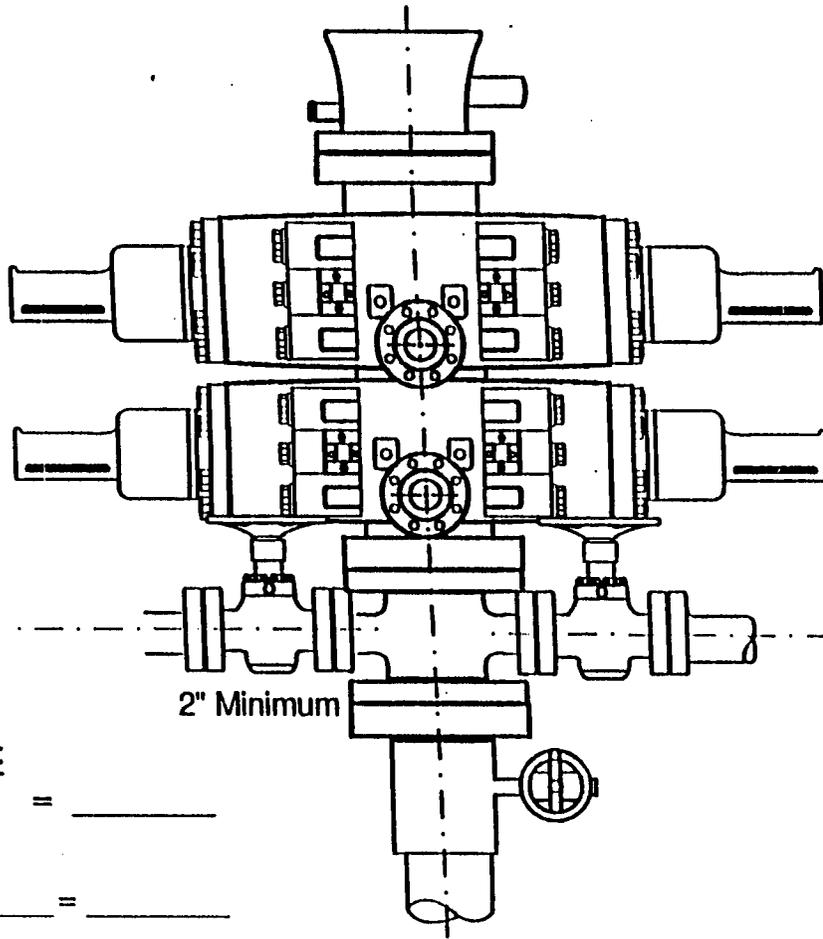
Make:

Size:

Model:

# 2-M SYSTEM

## EXHIBIT F



GAL TO CLOSE

Annular BOP = \_\_\_\_\_

Ramtype BOP = \_\_\_\_\_

\_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_

= \_\_\_\_\_ Gal.

\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
increment of 10 gal. would require  
\_\_\_\_\_ Gal. (total fluid & nitro volume)

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/20/96

API NO. ASSIGNED: 43-013-31711

WELL NAME: TAR SANDS FEDERAL 14-30  
 OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:  
 SESW 30 - T08S - R17E  
 SURFACE: 0755-FSL-1930-FWL  
 BOTTOM: 0755-FSL-1930-FWL  
 DUCHESNE COUNTY  
 UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: U - 74869

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal [ State [] Fee []  
 (Number 4488944)

Potash (Y/N)

Oil shale (Y/N)

Water permit  
 (Number GILSONITE ST. 7-32 INSER non well)

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_

R649-3-2. General.

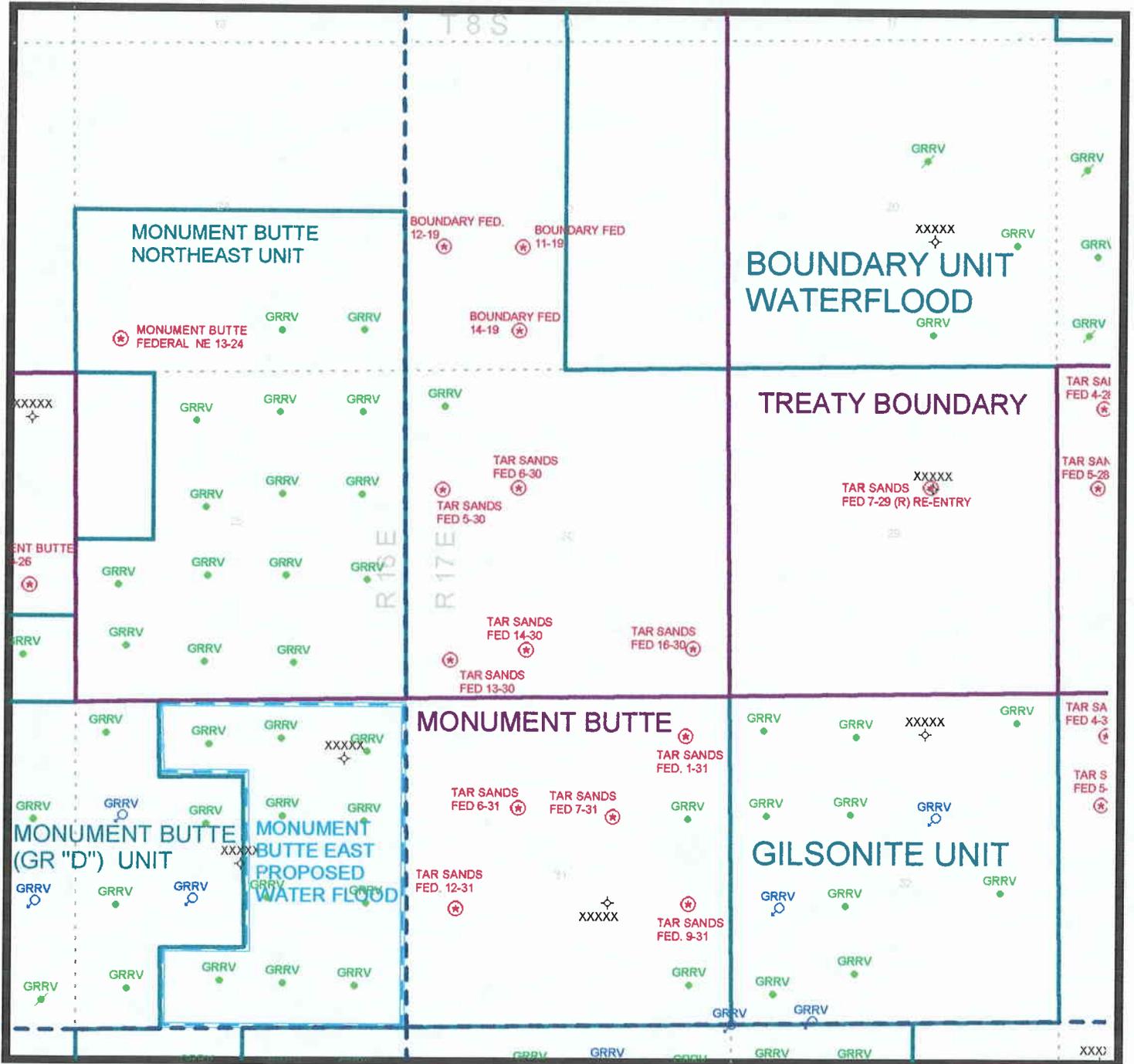
\_\_\_ R649-3-3. Exception.

\_\_\_ Drilling Unit.  
 Board Cause no: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

OPERATOR: INLAND PRODUCTION  
 FIELD: UNDESIGNATED (002)  
 SECTION: 30, T8S, R17E  
 COUNTY: DUCHESNE  
 SPACING: UAC R649-3-2



PREPARED:  
 DATE: 23-SEPT-96

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: INLAND PRODUCTION CO	Well Name: TAR SANDS FED 14-30
Project ID: 43-013-31711	Location: SEC. 30 - T8S - 17E

Design Parameters:

Mud weight (10.00 ppg) : 0.519 psi/ft  
 Shut in surface pressure : 2953 psi  
 Internal gradient (burst) : 0.065 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	6,500	5.500	15.50	J-55	LT&C	6,500	4.825		
	Collapse Load Strgth (psi)	Strgth S.F. (psi)	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F. (psi)	Tension Load Strgth (kips)	S.F. (kips)		
1	3377	4040	1.196	3377	4810	1.42	100.75	217	2.15 J

Prepared by : MATTHEWS, Salt Lake City, Utah  
 Date : 10-28-1996  
 Remarks :

GREEN RIVER

Minimum segment length for the 6,500 foot well is 1,500 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 119°F (Surface 74°F , BHT 165°F & temp. gradient 1.400°/100 ft.)

String type: Production

The mud gradient and bottom hole pressures (for burst) are 0.519 psi/ft and 3,377 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.07)



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

October 28, 1996

Inland Production Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Re: Tar Sands Federal 14-30 Well, 755' FSL, 1930' FWL,  
SE SW, Sec. 30, T. 8 S., R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31711.

Sincerely,

R. J. Firth  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office



Operator: Inland Production Company  
Well Name & Number: Tar Sands Federal 14-30  
API Number: 43-013-31711  
Lease: U-74869  
Location: SE SW Sec. 30 T. 8 S. R. 17 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]

5. LEASE DESIGNATION AND SERIAL NO. U-74869
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Tar Sands Federal
9. WELL NO. #14-30
10. FIELD AND POOL OR WILDCAT Monument Butte
11. SEC., T., R., M., OR BLK AND SURVEY OR AREA Sec. 30,T8S,R17E

2. NAME OF OPERATOR Inland Production Company
3. ADDRESS OF OPERATOR P.O. Box 1446 Roosevelt, UT 84066 Phone: (801) 722-5103

12. County Duchesne 13. STATE UT

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)
At Surface SE/SW
At proposed Prod. Zone 755' FSL & 1930' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*
10 Miles south of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.(Also to nearest drlg. unit line, if any) 1930'
16. NO. OF ACRES IN LEASE 1968.01
17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. 2751'
19. PROPOSED DEPTH 6500'
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5299.9' GR
22. APPROX. DATE WORK WILL START\* December 1996

23. PROPOSED CASING AND CEMENTING PROGRAM
Table with columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT

The actual cement volumes will be calculate off of the open hole logs, plus 15% excess.

SEP 1996 Received

RECEIVED NOV 04 1996 DIV. OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brad Mechem TITLE District Operations Manager DATE 9/12/96

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Assistant Field Manager TITLE Mineral Resources DATE OCT 29 1996

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Tar Sands Fed. 14-30

API Number: 43-013-31711

Lease Number: U-74869

Location: SESW Sec. 30 T. 8S R. 17E

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report **ALL** water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm 314$  ft. or by setting the surface casing at  $\pm 364$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

The Gamma Ray and Induction Logs need to be pulled from TD to the Surface Shoe.

A cement bond log (CBL) will be run from the production casing shoe to **TOP OF CEMENT** if the surface casing is set at  $\pm 364$  ft. or it will be run to **SURFACE** if the surface casing is set at  $\pm 300$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert Petroleum Engineer	(801) 789-4170
Ed Forsman Petroleum Engineer	(801) 789-7077
Jerry Kenczka Petroleum Engineer	(801) 789-1190
BLM FAX Machine	(801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

**SURFACE USE PROGRAM**

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

-All vehicle travel will be confined to existing access road rights-of-way.

-No surface disturbing activities, construction, or drilling operations, including the initial completion activities, are to occur on the well, access road, or location from March 15 through August 15. This restriction is to protect Mountain Plovers and Burrowing Owls located in the surrounding area. The restriction does not apply to maintenance and operation of existing wells and facilities. Waivers, exceptions, or modifications to this Condition of Approval may be specifically approved in writing by the authorized officer of the Bureau of Land Management if either the resource values change or the lessee/operator demonstrates that adverse impacts can be mitigated.

-If the well becomes a producing well, a multicylinder engine would be used on the pumping unit.

-The topsoil should be windrowed around corner 6 and on the west end of the location between corners 2 and 4 instead of piled as shown on the cut sheet.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO.

Well Name: TAR SANDS FEDERAL 14-30

Api No. 43-013-31711

Section 30 Township 8S Range 17E County DUCHESNE

Drilling Contractor \_\_\_\_\_

Rig #: \_\_\_\_\_

SPUDDED:

Date: 11/20/96

Time: 10:00 AM

How: DRY HOLE

Drilling will commence: \_\_\_\_\_

Reported by: D. INGRAM

Telephone #: \_\_\_\_\_

Date: 11/20/96 Signed: JLT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR Inland Production Co.  
ADDRESS P.O. Box 790233  
Vernal, UT 84079

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	12040	43-013-31711	Tar Sands Federal 14-30	SES	30	8S	17E	Duchesne	11/20/96	11/20/96
WELL 1 COMMENTS: <i>Entity added 11-26-96. Lee</i>											
A	99999	12041	43-013-31732	Tar Sands Federal 11-30	NES	30	8S	17E	Duchesne	11/18/96	11/18/96
WELL 2 COMMENTS: <i>Entity added 11-26-96. Lee</i>											
A	99999	12035	43-013-31703	MBFNE 14-26	SES	26	8S	16E	Duchesne	11/13/96	11/13/96
WELL 3 COMMENTS: <i>Entity previously added 11-15-96.</i>											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

*Cheryl Cameron*  
Signature Cheryl Cameron  
RCS 11/26/96  
Title \_\_\_\_\_ Date \_\_\_\_\_  
Phone No. 801, 789-1866

**F A X**

Inland Production Co.

---

To: Lysha Cordova  
Company:  
Fax number: +1 (801) 359-3940  
Business phone:

From: Cheryl Cameron  
Fax number: +1 (801) 789-1877  
Business phone: 801-789-1866  
Home phone:

Date & Time: 11/26/96 10:09:37 AM  
Pages: 2  
Re: Entity Action Form

---

Tar Sands Federal #14-30  
Tar Sands Federal #11-30  
MBFNE #14-26

---

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well  
 Oil Well     Gas well     Other

2. Name of Operator  
**Inland Production Company**

3. Address and Telephone No.  
**P.O. Box 790233 Vernal, UT 84079    Phone No. (801) 789-1866**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SE/SW 755' FSL & 1930' FWL  
 Sec. 30, T8S R17E**

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.  
**Tar Sands Federal #14-30**

9. API Well No.  
**43-013-31711**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**Duchesne, UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

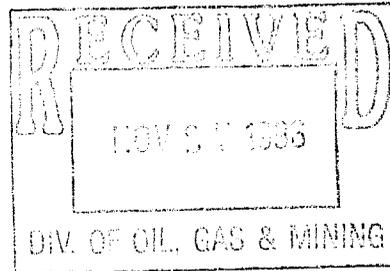
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Spud Notification</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**Drilled 12 1/4" hole w/ Leon Ross Rathole Rig to 225'. Finished drilling to 305'.  
 Run 292.78' GL of 8 5/8" csg. Set 120 sx prem + w/ 2% CaCl + 2% gel w/ 1/4#/  
 sk flocele.**

**SPUD 11/20/96**



14. I hereby certify that the foregoing is true and correct

Signed *Cheryl Cameron* Title Regulatory Compliance Specialist Date 11/22/96  
**Cheryl Cameron**

(This space of Federal or State office use.)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budgeted Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other	5. Lease Designation and Serial No. <b>U-74869</b>
2. Name of Operator <b>Inland Production Company</b>	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. <b>P.O. Box 790233 Vernal, UT 84079    Phone No. (801) 789-1866</b>	7. If unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>SE/SW 755' FSL &amp; 1920' FWL Sec. 30, T8S, R17E</b>	8. Well Name and No. <b>Tar Sands Federal #14-30</b>
	9. API Well No. <b>43-013-31711</b>
	10. Field and Pool, or Exploratory Area
	11. County or Parish, State <b>Duchesne, UT</b>

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Weekly Status</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

**WEEKLY STATUS REPORT FOR WEEK OF 12/12/96 - 12/19/96:**

**Drilled 7 7/8" hole from 313' - 6100' w/ Caza Rig #56. Set 6104' (KB) of 5 1/2" 15.5# J-55 csg. Cmt w/ 20 bbls dye flush, 20 bbls gel flush, 340 sx Hibond 65, followed by 320 sx Thixo w/ 10% CalSeal. Displace w/ 145 bbls Clayfix. Good returns w/ dye & gel to surface.**

**RDMOL**

14. I hereby certify that the foregoing is true and correct

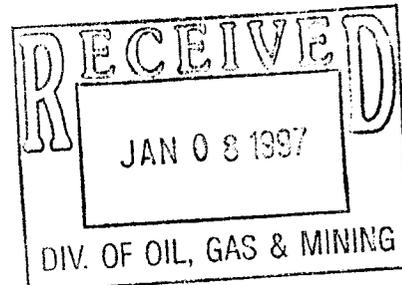
Signed *Cheryl Cameron* Title **Regulatory Compliance Specialist** Date **11/22/96**  
**Cheryl Cameron**

(This space of Federal or State office use.)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-74869**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**SAND WASH (GR RVR)**

8. Well Name and No.

**TAR SANDS FEDERAL 14-30**

9. API Well No.

**43-013-31711**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	<input type="checkbox"/> Other
--	-----------------------------------	--------------------------------

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**0755 FSL 1930 FWL SE/SW Section 30, T08S R17E**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

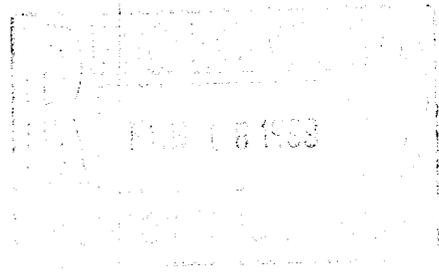
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Weekly Status</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 2/3/99 - 2/10/99**

Due to economic factors Inland Production Company is unable to complete the above referenced well. The well has been drilled and is currently waiting on completion. Inland Production Company plans to complete the well once economic conditions change.



14. I hereby certify that the foregoing is true and correct

Signed Sharon Smith Title Engineering Secretary Date 2/3/99

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

**CC: UTAH DOGM**

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

OPERATOR: INLAND PRODUCTION COMPANY  
 ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
C	12040	12308	43-013-31711	Tar Sands Federal 14-30	SESW	30	8S	17E	Duchesne	11/20/96	12/01/97
WELL 1 COMMENTS Key #57 completion rig moved on location 3/27/2000 <i>entity added 000328.</i>											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 2 COMMENTS											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 3 COMMENTS											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 4 COMMENTS											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
WELL 5 COMMENTS											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entry (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

*Coe H. Hatcher*  
 Signature

St. Production Accounting Clerk March 28, 2000  
 Title Date

NOTE: Use COMMENT section to explain why each Action Code was selected.

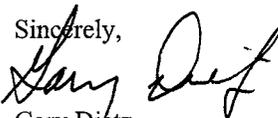


April 3, 2000

State of Utah  
Division of Oil, Gas & Mining  
Attn: Carol Daniels  
1594 West North Temple-Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Dear Carol;

Please find enclosed Form 3160-5, for the Tar Sands Federal 14-30-8-17. If you have any questions please call me at 435-823-4211 (CELL) or 435-646-3721 (OFFICE) any time.

Sincerely,  
  
Gary Dietz  
Completion Foreman

Enclosures

gd

**RECEIVED**  
APR 05 2000  
DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Inland Production Company**

3. Address and Telephone No.  
**Rout #3 Box 3630 Myton, Utah 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
 755' FSL 1930' FWL SE/SW Section 30, T8S, R17E

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**Tar Sands Federal 14-30-8-17**

9. API Well No.  
 43-013-31711

10. Field and Pool, or Exploratory Area  
**Monument Butte**

11. County or Parish, State  
 Duchesne County Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <b>Status report</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Status report for time period 3/27/00 through 4/2/00.  
 Subject well Had 4 Green River zones perforated and hydraulically fractured. Bridge plugs and sand plugs were removed from wellbore. Zones are being swab tested to clean up sand at present time.

**RECEIVED**

APR 05 2000

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed Gary Dietz Title Completion Foreman Date 3-Apr-00

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:  
 CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



April 10, 2000

State of Utah  
Division of Oil, Gas & Mining  
Attn: Carol Daniels  
1594 West North Temple-Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Dear Carol;

Please find enclosed Form 3160-5, for the Tar Sands Federal 14-30-8-17. If you have any questions please call me at 435-823-4211 (CELL) or 435-646-3721 (OFFICE) any time.

Sincerely,

Gary Dietz  
Completion Foreman

Enclosures

gd

**RECEIVED**  
APR 11 2000  
DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**Inland Production Company**

3. Address and Telephone No.  
**Rout #3 Box 3630 Myton, Utah 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
 755' FSL 1930' FWL SE/SW Section 30, T8S, R17E

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**Tar Sands Federal 14-30-8-17**

9. API Well No.  
 43-013-31711

10. Field and Pool, or Exploratory Area  
**Monument Butte**

11. County or Parish, State  
 Duchesne County Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <b>Status report</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Status report for time period 4/3/00 through 4/9/00.  
 Subject well had zones swab tested to clean up sand. Production equipment was run in well. Began producing on pump on 4/3/00.

**RECEIVED**

APR 11 2000

DIVISION OF  
OIL, GAS AND MINING

**RECEIVED**

APR 11 2000

DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed Gary Dietz Title Completion Foreman Date 10-Apr-00

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

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\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

*SUBMIT IN TRIPLICATE*

1. Type of Well

Oil Well  Gas Well  Other

8. Well Name and No.

**Tar Sands Federal 14-30-8-17**

9. API Well No.

43-013-31711

2. Name of Operator

**Inland Production Company**

10. Field and Pool, or Exploratory Area

**Monument Butte**

3. Address and Telephone No.

**Rout #3 Box 3630 Myton, Utah 84052 435-646-3721**

11. County or Parish, State

Duchesne County Utah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

75' FSL 1930' FWL SE/SW Section 30, T8S, R17E

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <b>Status report</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Status report for time period 3/27/00 through 4/2/00.  
Subject well Had 4 Green River zones perforated and hydraulically fractured. Bridge plugs and sand plugs were removed from wellbore. Zones are being swab tested to clean up sand at present time.

14. I hereby certify that the foregoing is true and correct

Signed

Gary Dietz

Title

**Completion Foreman**

Date

**3-Apr-00**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



June 12, 2000

State of Utah  
Division of Oil, Gas & Mining  
Attn: Carol Daniels  
1594 West North Temple-Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Dear Carol;

Please find enclosed Form 3160-5, for the Tar Sands Federal 14-30-8-17. If you have any questions please call me at 435-823-4211 (CELL) or 435-646-3721 (OFFICE) any time.

Sincerely,

Gary Dietz  
Completion Foreman

Enclosures

gd

**RECEIVED**

**JUN 14 2000**

**DIVISION OF  
OIL, GAS AND MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT - -" for such proposals

5. Lease Designation and Serial No.  
**U-74869**

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA, Agreement Designation  
Sand Wash unit

8. Well Name and No.  
**Tar Sands Federal 14-30-8-17**

9. API Well No.  
43-013-31711

10. Field and Pool, or Exploratory Area  
**Monument Butte**

11. County or Parish, State  
Duchesne County Utah

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Inland Production Company**

3. Address and Telephone No.  
**Rout #3 Box 3630 Myton, Utah 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
755' FSL & 1930' FWL NE/NW Section 30, T8S, R17E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input checked="" type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
 Status \_\_\_\_\_ report \_\_\_\_\_ for \_\_\_\_\_ time \_\_\_\_\_ period 6/5/00 through 6/11/00.  
 Subject well had production equipment pulled. Sand was spotted on bridge plug @ 4660'. Perfs @ 4523-4532' were squeezed with 100 sks Class G cmt W/ 2% CaCl2. Cement was drilled out, squeeze pressure tested to 500 psi W/ no leakoff. Bridge plug was removed from wellbore. Production equipment was ran back into well. Well began producing on pump on 6/9/00.

14. I hereby certify that the foregoing is true and correct  
 Signed Gary Dietz Title **Completion Foreman** Date **12-Jun-00**

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:  
 CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**RECEIVED**

JUN 14 2000

DIVISION OF  
OIL, GAS AND MINING

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK  
 OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF WELL  
 NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME  
**SAND WASH (GR RVR)**

8. FARM OR LEASE NAME, WELL NO.  
**Tar Sands Federal #14-30**

2. NAME OF OPERATOR  
**INLAND RESOURCES INC.**

9. API WELL NO.  
**43-013-31711**

3. ADDRESS AND TELEPHONE NO.  
**410 17th St. Suite 700 Denver, CO 80202**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface  
**755' FSL & 1930' FWL (SE SW) SECTION 30 - 8S - 17E**

At top prod. Interval reported below

At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Section 30 - T8S - R17E**

14. PERMIT NO. **43-013-31711** DATE ISSUED **10-30-96**

12. COUNTY OR PARISH **DUCHESNE** 13. STATE **UT**

15. DATE SPUDDED **11/20/96** 16. DATE T.D. REACHED **12/19/96** 17. DATE COMPL. (Ready to prod.) **04/03/00**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5300' GR 5313' KB** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **6100'** 21. PLUG BACK T.D., MD & TVD **6033'** 22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS ROTARY TOOLS  
 DRILLING TOOLS  
**RECEIVED**

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4523' - 5929'**

25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**DIGL/SP/CDL 7-10-00**

27. WAS WELL CORED  
**No**

**23. CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8	24#	313	12-1/4	120 SX PREMIUM	
5-1/2	15.5#	6104'	7-7/8	340 SX HIBOND and 320 SX THIXOTROPIC	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	EOT @ 5955'	TA @ 5857'

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
CP Sds: 5867' - 5829'	4	56		5867' - 5829'	FRAC W/ 73,475# 20/40 SD IN 531 BBLs FLUID
LDC Sds: 5611' - 5621'	4	40		5611' - 5621'	FRAC W/ 71,674# 20/40 SD IN 497 BBLs FLUID
A Sds: 5379' - 5445'	4	60		5379' - 5445'	FRAC W/ 66,298# 20/40 SD IN 451 BBLs FLUID
GB Sds: 4523' - 4532'	4	36		4523' - 4532'	FRAC W/ 81,000# SD. TESTED WTR. SQ W/ 100 SX CMT

33.\* **PRODUCTION**

DATE FIRST PRODUCTION **06/09/00** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **2-1/2" x 1-1/2" x 16' RHAC Pump** WELL STATUS (Producing or shut-in) **PRODUCING**

DATE OF TEST **10 day ave** HOURS TESTED \_\_\_\_\_ CHOKE SIZE \_\_\_\_\_ PROD'N. FOR TEST PERIOD \_\_\_\_\_ OIL--BBLs. **6** GAS--MCF. **22** WATER--BBL. **5** GAS-OIL RATIO **3667**

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL-BBL. \_\_\_\_\_ GAS--MCF. \_\_\_\_\_ WATER--BBL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold & Used for Fuel** TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS  
**Logs In Item #26**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Don W. Murphy* TITLE **Senior Operations Engineer** DATE **6/29/00**

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool-open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	3944'					
Garden Gulch 2	4260'					
Point 3 Mkr	4539'					
X Mkr	4771'					
Y-Mkr	4808'					
Douglas Creek Mkr	4936'					
BiCarbonate Mkr	5174'	5182'				
B Limestone Mkr	5299'	5314'				
Castle Peak	5813'	5834'				
Basal Carbonate	NOE					
Total Depth (LOGGERS)	6100'					
 <b>Tar Sands Federal #14-30</b>						



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>

IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare



## Office of the Secretary of State

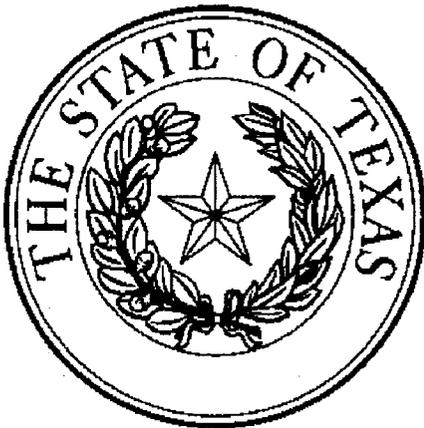
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective: 9/1/2004

<b>FROM:</b> (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO:</b> ( New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
---	--

**CA No.** \_\_\_\_\_ **Unit:** SAND WASH (GREEN RIVER)

<b>WELL(S)</b>								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 13-19-8-17	19	080S	170E	4301331625	12308	Federal	WI	A
TAR SANDS FED 12-30	30	080S	170E	4301331543	12308	Federal	OW	P
TAR SANDS FED 5-30	30	080S	170E	4301331620	12308	Federal	WI	A
TAR SANDS FED 4-30	30	080S	170E	4301331621	12308	Federal	OW	P
TAR SANDS FED 13-30	30	080S	170E	4301331637	12308	Federal	WI	A
TAR SANDS FED 16-30	30	080S	170E	4301331708	12308	Federal	OW	P
TAR SANDS FED 14-30	30	080S	170E	4301331711	12308	Federal	OW	P
TAR SANDS 6-30-8-17	30	080S	170E	4301331712	12308	Federal	OW	P
TAR SANDS FED 11-30	30	080S	170E	4301331732	12308	Federal	WI	A
TAR SANDS FED 3-30	30	080S	170E	4301331755	12308	Federal	WI	A
HARBOUR TOWN FED 31-30	30	080S	170E	4301331758	12308	Federal	OW	P
TAR SANDS FED 7-30	30	080S	170E	4301331807	12308	Federal	WI	A
TAR SANDS FED 10-30	30	080S	170E	4301331808	12308	Federal	OW	P
GOVERNMENT 31-2	31	080S	170E	4301320082	12308	Federal	OW	P
TAR SANDS FED 4-31	31	080S	170E	4301331606	12308	Federal	OW	P
TAR SANDS FED 5-31	31	080S	170E	4301331607	12308	Federal	WI	A
TAR SANDS FED 8-31	31	080S	170E	4301331615	12308	Federal	OW	P
TAR SANDS FED 9-31	31	080S	170E	4301331616	12308	Federal	OW	P
TAR SANDS FED 1-31	31	080S	170E	4301331654	12308	Federal	WI	A
TAR SANDS FED 7-31	31	080S	170E	4301331684	12308	Federal	WI	A
TAR SANDS FED 6-31	31	080S	170E	4301331686	12308	Federal	OW	P
TAR SANDS FED 3-31	31	080S	170E	4301331733	12308	Federal	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

3a. Address    Route 3 Box 3630  
 Myton, UT 84052

3b. Phone    (include are code)  
 435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 755 FSL 1930 FWL  
 SESW Section 30 T8S R17E

5. Lease Serial No.  
 USA UTU-74869

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
 GMBU

8. Well Name and No.  
 TAR SANDS FED 14-30

9. API Well No.  
 4301331711

10. Field and Pool, or Exploratory Area  
 GREATER MB UNIT

11. County or Parish, State  
 DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from producing oil well to an injection well.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

RECEIVED  
DEC 21 2011

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jill Lovle	Title Regulatory Technician
Signature 	Date 12/15/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 14-30
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013317110000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0755 FSL 1930 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 30 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/29/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 03/20/2012. On 03/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/29/2012 the casing was pressured up to 1290 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09444

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 09, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/2/2012	

## Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 3 / 29 / 12  
 Test conducted by: Troy Lazenby  
 Others present: \_\_\_\_\_

Well Name: <u>For Sards Fed Monument Duffe</u>	Date: <u>14-30-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Duffe</u>			
Location: <u>14-30-8-17</u> Sec: <u>30</u> T <u>85</u> N/S R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>	
Operator: <u>Troy Lazenby</u>			
Last MIT: _____ / _____ / _____	Maximum Allowable Pressure: _____	PSIG	

Is this a regularly scheduled test?     Yes     No  
 Initial test for permit?                 Yes     No  
 Test after well rework?                 Yes     No  
 Well injecting during test?             Yes     No    If Yes, rate: 0 bpd

Pre-test casing/tubing annulus pressure: 0 psig

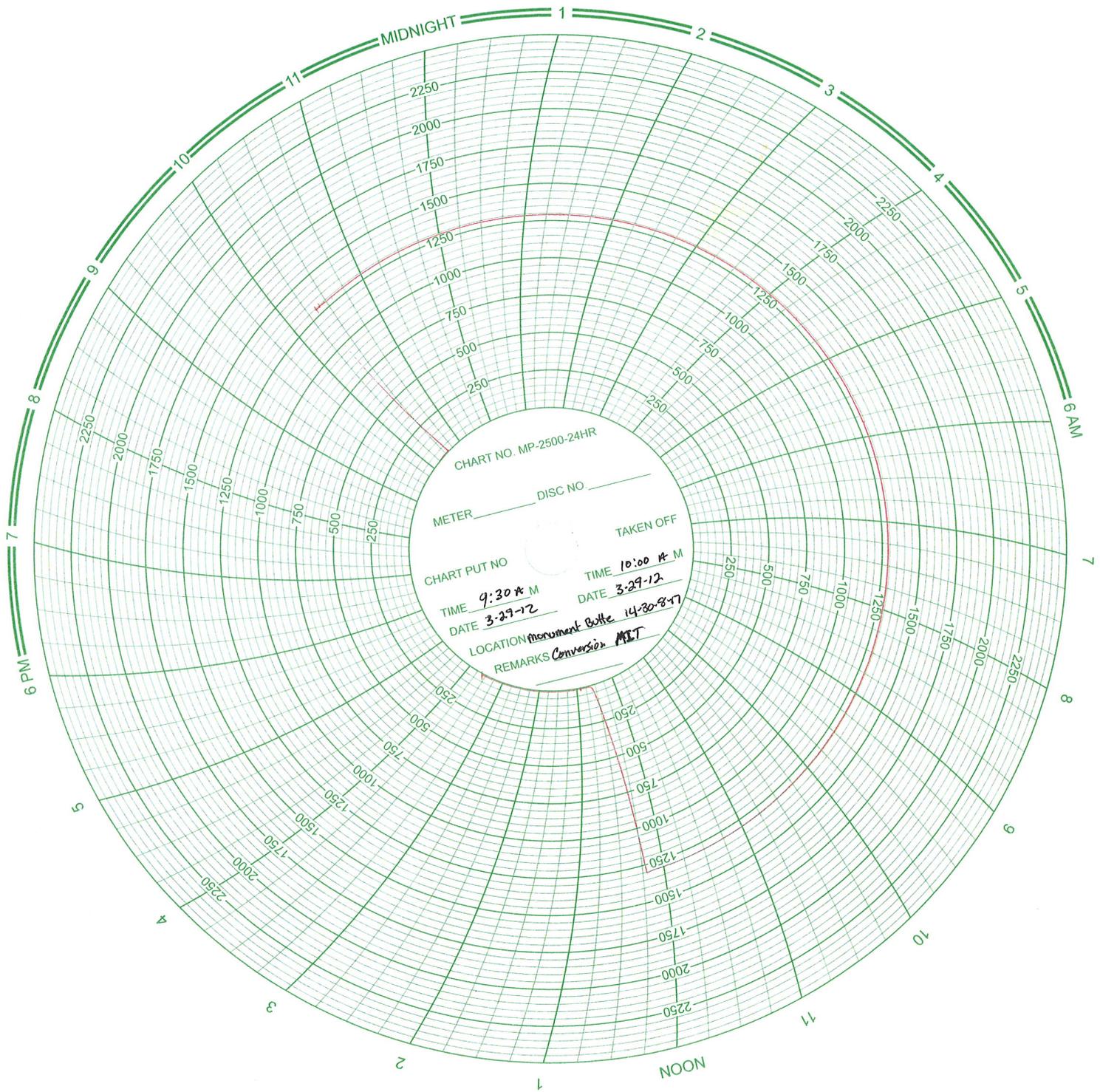
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1290 / 0</u> psig	psig	psig
5 minutes	<u>1290 / 0</u> psig	psig	psig
10 minutes	<u>1290 / 0</u> psig	psig	psig
15 minutes	<u>1290 / 0</u> psig	psig	psig
20 minutes	<u>1290 / 0</u> psig	psig	psig
25 minutes	<u>1290 / 0</u> psig	psig	psig
30 minutes	<u>1290 / 0</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test ?     Yes     No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

### Format For Sundry

### TAR SANDS 14-30-8-17

1/1/2012 To 5/30/2012

**1/21/2012 Day: 1**

**Host Well Gyro**

WWS #1 on 1/21/2012 - MIRU WWS #1. TOH w/ rods, Run gyro, TIH w/ rods same as pulled. Stack out and clamp off rods. RDMOSU. - MIRU WWS#1. Unhang head. Did not see pump unseat. TOH w/ rods. LD rod pump. RU V.E.S run gyro. RD WL. TIH w/ rods same as pulled. Stack out rods and clamp off. Left well down for 20 acre host. (All cost are to be billed out to GMB C-31-8-17, AFE# 25862, 880-157 Pre-location gyro. WWS#1 \$4645, V.E.S \$3300, Advantage hot oil \$1200, Benco anchors \$400, NDSI trucking \$600, NDSi wtr \$450) - MIRU WWS#1. Unhang head. Did not see pump unseat. TOH w/ rods. LD rod pump. RU V.E.S run gyro. RD WL. TIH w/ rods same as pulled. Stack out rods and clamp off. Left well down for 20 acre host. (All cost are to be billed out to GMB C-31-8-17, AFE# 25862, 880-157 Pre-location gyro. WWS#1 \$4645, V.E.S \$3300, Advantage hot oil \$1200, Benco anchors \$400, NDSI trucking \$600, NDSi wtr \$450) **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$300

---

**3/19/2012 Day: 1**

**Conversion**

WWS #7 on 3/19/2012 - MIRUSU WWS #7. RD pumping unit. TOOOh laying down rods. - MIRUSU WWS #7. Hot oiler pumped 40 bw down CSG @ 250°. RD pumping unit. Unseat rod pump. Flush rods w/ 55 bw @ 250°. Soft seat pump. Pressure test tbg to 3000 psi w/ 4 bw. Retrieve rods. LD polish rod. TOOOh laying down rod string. Get out of hole w/ 30 - 3/4" guided rods. SDFN - MIRUSU WWS #7. Hot oiler pumped 40 bw down CSG @ 250°. RD pumping unit. Unseat rod pump. Flush rods w/ 55 bw @ 250°. Soft seat pump. Pressure test tbg to 3000 psi w/ 4 bw. Retrieve rods. LD polish rod. TOOOh laying down rod string. Get out of hole w/ 30 - 3/4" guided rods. SDFN - Crew travel - Crew travel

**Daily Cost:** \$0

**Cumulative Cost:** \$11,488

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**3/20/2012 Day: 3**

**Conversion**

WWS #7 on 3/20/2012 - Continue TOOOh w/ tbg. TIH w/ PKR, new PSN, & TBG. Pressure test tbg. Circulate PKR fluid. Set PKR & land tbg w/ 15000# tension. Pressure test CSG. Leave pressure on CSG. - Crew travel & pre-job safety meeting - Crew travel & pre-job safety meeting - Crew travel - Crew travel - Open well. Flush tbg w/ 30 bw @ 250°. LD 44 jts tbg, TAC, 1 jt, PSN, 1 jt tbg, & NC. MU Weatherford 5 1/2" AS-1X PKR & PSN. TIH w/ 145 jts tbg. Pump 5 bw & drop SV. Test tbg to 3000 psi w/ 22 bw. Monitor for 30 min w/ 0 psi lost. Good test. RIH w/ SI. Latch onto & unset SV. POOH w/ SL. ND BOP. MU B-1 adapter flange & land tbg. Circulate PKR fluid. Set PKR. Land tbg w/ 15000# tension. MU injection tree. Pressure up CSG to 1500 psi. SDFN EWTR 292 BBLs. - Open well. Flush tbg w/ 30 bw @ 250°. LD 44 jts tbg, TAC, 1 jt, PSN, 1 jt tbg, & NC. MU Weatherford 5 1/2" AS-1X PKR & PSN. TIH w/ 145 jts tbg. Pump 5 bw & drop SV. Test tbg to 3000 psi w/ 22 bw. Monitor for 30 min w/ 0 psi lost. Good test. RIH w/ SI. Latch onto & unset SV. POOH w/ SL. ND BOP. MU B-1 adapter flange & land tbg. Circulate PKR fluid. Set PKR. Land tbg w/ 15000# tension. MU injection tree. Pressure up CSG to 1500 psi. SDFN EWTR 292 BBLs. - Open well. Flush rods w/ 30 bw @ 250°. Continue TOOOh laying down rods. Get out of hole rods (flushed 3 additional times w/ 60 bw total). X-over to tbg equipment. ND wellhead. Release TAC. NU BOP. RU work floor. PU & TIH w/ 4 jts tbg to tag fill @ 6006'. 37' fill. LD 4 jts tbg. TOOOh tallying, breaking collars, &

applying Liquid O-Ring to threads. Get out of hole w/ 145 jts tbg. Flushed tbg 6 times w/ 120 bw. SDFN EWTR 235 BBLs - Open well. Flush rods w/ 30 bw @ 250°. Continue TOO H laying down rods. Get out of hole rods (flushed 3 additional times w/ 60 bw total). X-over to tbg equipment. ND wellhead. Release TAC. NU BOP. RU work floor. PU & TIH w/ 4 jts tbg to tag fill @ 6006'. 37' fill. LD 4 jts tbg. TOO H tallying, breaking collars, & applying Liquid O-Ring to threads. Get out of hole w/ 145 jts tbg. Flushed tbg 6 times w/ 120 bw. SDFN EWTR 235 BBLs - Crew travel - Crew travel - Crew travel 7 pre-job safety meeting. - Open well. Flush tbg w/ 30 bw @ 250°. LD 44 jts tbg, TAC, 1 jt, PSN, 1 jt tbg, & NC. MU Weatherford 5 1/2" AS-1X PKR & PSN. TIH w/ 145 jts tbg. Pump 5 bw & drop SV. Test tbg to 3000 psi w/ 22 bw. Monitor for 30 min w/ 0 psi lost. Good test. RIH w/ SI. Latch onto & unset SV. POOH w/ SL. ND BOP. MU B-1 adapter flange & land tbg. Circulate PKR fluid. Set PKR. Land tbg w/ 15000# tension. MU injection tree. Pressure up CSG to 1500 psi. SDFN EWTR 292 BBLs. - Crew travel 7 pre-job safety meeting. - Open well. Flush tbg w/ 30 bw @ 250°. LD 44 jts tbg, TAC, 1 jt, PSN, 1 jt tbg, & NC. MU Weatherford 5 1/2" AS-1X PKR & PSN. TIH w/ 145 jts tbg. Pump 5 bw & drop SV. Test tbg to 3000 psi w/ 22 bw. Monitor for 30 min w/ 0 psi lost. Good test. RIH w/ SI. Latch onto & unset SV. POOH w/ SL. ND BOP. MU B-1 adapter flange & land tbg. Circulate PKR fluid. Set PKR. Land tbg w/ 15000# tension. MU injection tree. Pressure up CSG to 1500 psi. SDFN EWTR 292 BBLs. - Crew travel - Crew travel - Crew travel & pre-job safety meeting - Crew travel & pre-job safety meeting - Crew travel 7 pre-job safety meeting. - Crew travel 7 pre-job safety meeting. - Crew travel - Crew travel - Open well. Flush rods w/ 30 bw @ 250°. Continue TOO H laying down rods. Get out of hole rods (flushed 3 additional times w/ 60 bw total). X-over to tbg equipment. ND wellhead. Release TAC. NU BOP. RU work floor. PU & TIH w/ 4 jts tbg to tag fill @ 6006'. 37' fill. LD 4 jts tbg. TOO H tallying, breaking collars, & applying Liquid O-Ring to threads. Get out of hole w/ 145 jts tbg. Flushed tbg 6 times w/ 120 bw. SDFN EWTR 235 BBLs - Open well. Flush rods w/ 30 bw @ 250°. Continue TOO H laying down rods. Get out of hole rods (flushed 3 additional times w/ 60 bw total). X-over to tbg equipment. ND wellhead. Release TAC. NU BOP. RU work floor. PU & TIH w/ 4 jts tbg to tag fill @ 6006'. 37' fill. LD 4 jts tbg. TOO H tallying, breaking collars, & applying Liquid O-Ring to threads. Get out of hole w/ 145 jts tbg. Flushed tbg 6 times w/ 120 bw. SDFN EWTR 235 BBLs **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$19,461

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**3/21/2012 Day: 4**

**Conversion**

WWS #7 on 3/21/2012 - Check CSG pressure. RDMOSU WWS #7 - Check CSG. Good test. RDMOSU. READY FOR MIT! - Crew travel & pre-job safety meeting. - Check CSG. Good test. RDMOSU. READY FOR MIT! - Crew travel & pre-job safety meeting. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$79,296

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**4/2/2012 Day: 5**

**Conversion**

Rigless on 4/2/2012 - Conduct initial MIT - On 03/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/29/2012 the casing was pressured up to 1290 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09444 - On 03/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 03/29/2012 the casing was pressured up to 1290 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20847-09444 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$111,116

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**Pertinent Files: [Go to File List](#)**



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

**1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>**

**FEB 14 2012**

Ref: 8P-W-GW

**RECEIVED**

**FEB 23 2012**

**DIV. OF OIL, GAS & MINING**

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**FOR RECORD ONLY**

Re: Underground Injection Control (UIC)  
Additional Well to Sand Wash Area Permit  
EPA UIC Permit UT20847-09444  
Well: Tar Sands Federal 14-30-8-17  
SESW Sec. 30 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-31711

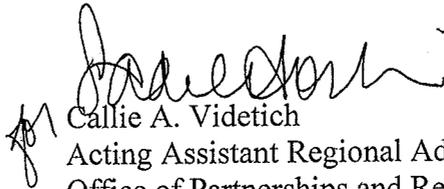
Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Tar Sands Federal 14-30-8-17 to an enhanced Recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Sand Wash Area Permit No. UT20847-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
Wellbore Schematic for Tar Sands Federal 14-30-8-17

cc: Letter Only:

Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

AUTHORIZATION FOR ADDITIONAL WELL

UIC Area Permit UT20847-00000

The Sand Wash Final UIC Area Permit UT20847-00000, effective May 26, 1988, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On December 16, 2011, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: Tar Sands Federal 14-30-8-17
EPA Permit ID Number: UT20847-09444
Location: 755' FSL & 1930' FWL
SESW Sec. 30 T98S-R17E
Duchesne County, Utah
API #43-013-31711

Pursuant to 40 CFR §144.33, Area UIC Permit UT20847-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20847-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 2/13/12

Signature of Callie A. Videtich
Callie A. Videtich
\*Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

\* The person holding this title is referred to as the Director throughout the permit and Authorization

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Tar Sands Federal 14-30-8-17  
EPA Well ID Number: UT20847-09444

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,395 psig, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.699 psi/ft, SG is 1.015 and D is 5,379 ft.

UIC Area Permit No. UT20847-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Tar Sands Federal 14-30-8-17

EPA Well ID Number: UT20847-09444

**Underground Sources of Drinking Water (USDWs):** USDWs in the Sand Wash Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 50 ft. below ground surface in the Tar Sands Federal 14-30-8-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http:NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20847-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation

Authorization for Additional Well: UIC Area Permit UT20847-00000

Well: Tar Sands Federal 14-30-8-17 EPA Well ID: UT20847-09444

fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 293 ft. in a 12-1/4" hole, using 120 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,100 ft. in a 7-7/8" hole secured with 660 sacks of cement. Total driller depth is 6,104 ft. Plugged back total depth is 6,043 ft. EPA calculates top of cement at 1,824 ft. Estimated CBL top of cement is 902 ft.

**Perforations:** Top perforation: 5,379 ft.                      Bottom perforation: 5,929 ft.

## AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following five wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Tar Sands Federal 14-30-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

GMB Q-30-8-17	API: 43-013-50532	SHL: NESW Sec. 30-T8S-R17E BHL: SWSW Sec. 30-T8S-R17E
GMB R-30-8-17	API: 43-013-50533	SHL: NESW Sec. 30-T8S-R17E BHL: SWSE Sec. 30-T8S-R17E
Tar Sands Federal 11-30-8-17 UT20847-04440	API: 43-013-31732	NESW Sec. 30-T8S-R17E
Tar Sands Federal 13-30-8-17 UT20847-04407	API: 43-013-31637	SWSW Sec. 30-T8S-R17E\
Tar Sands Federal 15-30-8-17 UT20847-04441	API: 43-013-31874	SWSE Sec. 30-T8S-R17E

Insufficient 80% annulus cement bond in Confining Zone. RTS: June 13, 2011: Reviewed and approved by the EPA.

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

### **Reporting of Noncompliance:**

- 1) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 2) **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- 3) **(Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance.** The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

# Tar Sands Federal #14-30

Initial Production: 16.4 BOPD,  
11.2 MCFPD, 91.3 BWPD

Spud Date: 12/13/96

Put on Production: 4/3/00  
GL: 5300' KB: 5313'

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (293.58')

DEPTH LANDED: 292.78' GL

HOLE SIZE: 12-1/4"

CEMENT DATA: 120 sxs Premium cmt, est 2 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 145 jts. (?)

DEPTH LANDED: 6100'

HOLE SIZE: 7-7/8"

CEMENT DATA: 340 sk Ilibond mixed & 320 sxs thixotropic

CEMENT TOP AT: 902' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / M-50 lb/g.

NO. OF JOINTS: 170 jts. (5233.21')

NO. OF JOINTS: 19 jts. (601.54') (2 7/8" J-55)

TUBING ANCHOR: 5844.75' KB

NO. OF JOINTS: 1 jts. (31.47')

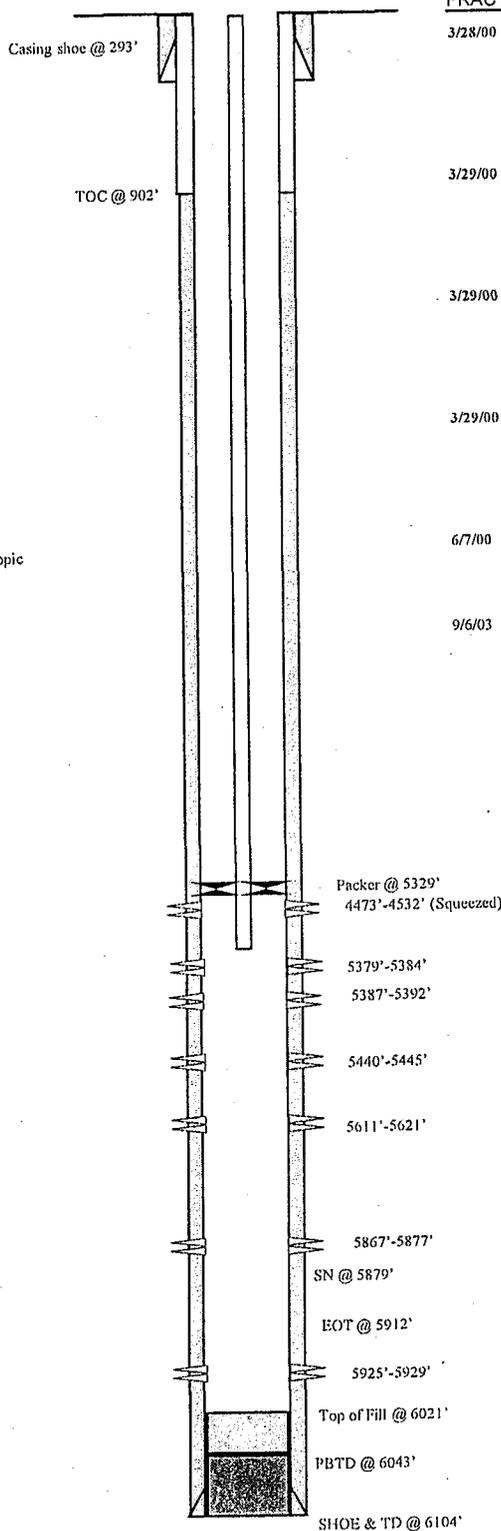
SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5879.03' KB

NO. OF JOINTS: 1 jts. (31.30')

TOTAL STRING LENGTH: BOT @ 5911.88' W/10' KB

### Proposed Injection Wellbore Diagram



### FRAC JOB

3/28/00	5867'-5929'	Frac CP sands as follows: 73,475# of 20/40 sand in 531 bbls of Viking I-25 fluid. Hole filled w/132 bbls. Breakdown @ 3170 psi, treated @ avg rate of 31.4 bpm w/ avg press of 2300psi. ISIP-2290 psi, 5-min 2019 psi.
3/29/00	5611'-5621'	Frac LODC sand as follows: 71,674# of 20/40 sd in 497 bbls of Viking I-25. Breakdown @ 3657 psi. Treated @ avg rate of 32 bpm w/avg press of 2400 psi. ISIP-2320 psi, 5-min 2119 psi.
3/29/00	5379'-5445'	Frac A sand as follows: 66,298# of 20/40 sd in 451 bbls of Viking I-25. Breakdown @ 4000 psi. Treated @ avg rate of 31.9 bpm w/avg press of 2370 psi. ISIP-2170 psi, 5-min 2021 psi.
3/29/00	4523'-4532'	Frac GB sand as follows: 81,163# of 20/40 sd in 544 bbls of Viking I-25. Breakdown @ 3935 psi. Treated @ avg rate of 27.5 bpm w/avg press of 2200 psi. ISIP-2354 psi, 5-min 2178 psi.
6/7/00	4523'-4532'	Squeeze GB sand as follows: Pump 100 sk Class "G" cmt. @ 2.5 bpm @ 600 psi. Drill out cmt and pressure test to 500 psi for 15 min.
9/6/03		Tubing Leak. Update rod and tubing details.

### PERFORATION RECORD

3/28/00	5867'-5877'	4 JSFP	40 holes
3/28/00	5925'-5929'	4 JSFP	16 holes
3/29/00	5611'-5621'	4 JSFP	40 holes
3/29/00	5379'-5384'	4 JSFP	20 holes
3/29/00	5387'-5392'	4 JSFP	20 holes
3/29/00	5440'-5445'	4 JSFP	20 holes
3/29/00	4523'-4532'	4 JSFP	36 holes

**NEWFIELD**

Tar Sands Federal #14-30  
755 FSL 1930 FWL  
SESW Section 30-T8S-R17E  
Duchesne Co, Utah  
API #43-013-31711; Lease #UTU-74869



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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**RECEIVED**

**FEB 23 2012**

**DIV. OF OIL, GAS & MINING**

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**FOR RECORD ONLY**

Re: Underground Injection Control (UIC)  
Additional Well to Sand Wash Area Permit  
EPA UIC Permit UT20847-09444  
Well: Tar Sands Federal 14-30-8-17  
SESW Sec. 30 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-31711

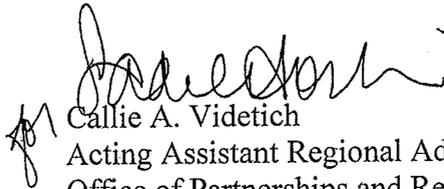
Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Tar Sands Federal 14-30-8-17 to an enhanced Recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Sand Wash Area Permit No. UT20847-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
Wellbore Schematic for Tar Sands Federal 14-30-8-17

cc: Letter Only:

Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit UT20847-00000**

The Sand Wash Final UIC Area Permit UT20847-00000, effective May 26, 1988, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On December 16, 2011, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

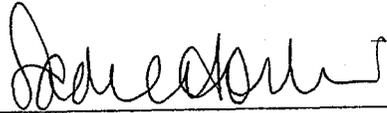
Well Name:	Tar Sands Federal 14-30-8-17
EPA Permit ID Number:	UT20847-09444
Location:	755' FSL & 1930' FWL SESW Sec. 30 T98S-R17E Duchesne County, Utah API #43-013-31711

Pursuant to 40 CFR §144.33, Area UIC Permit UT20847-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20847-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 2/13/12

  
\_\_\_\_\_  
**Callie A. Videtich**

*for* \*Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

Authorization for Additional Well: UIC Area Permit UT20847-00000  
Well: Tar Sands Federal 14-30-8-17 EPA Well ID: UT20847-09444

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: Tar Sands Federal 14-30-8-17  
EPA Well ID Number: UT20847-09444

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,395 psig, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.699 psi/ft, SG is 1.015 and D is 5,379 ft.

UIC Area Permit No. UT20847-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c).

Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

### **Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost

casing string, centered on the contact between the Green River Formation and Uinta Formation.

(4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: Tar Sands Federal 14-30-8-17

EPA Well ID Number: UT20847-09444

**Underground Sources of Drinking Water (USDWs):** USDWs in the Sand Wash Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 50 ft. below ground surface in the Tar Sands Federal 14-30-8-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http:NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20847-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation

Authorization for Additional Well: UIC Area Permit UT20847-00000

Well: Tar Sands Federal 14-30-8-17 EPA Well ID: UT20847-09444

fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** This well was constructed according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

**Surface Casing:** 8-5/8" casing is set at 293 ft. in a 12-1/4" hole, using 120 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,100 ft. in a 7-7/8" hole secured with 660 sacks of cement. Total driller depth is 6,104 ft. Plugged back total depth is 6,043 ft. EPA calculates top of cement at 1,824 ft. Estimated CBL top of cement is 902 ft.

**Perforations:** Top perforation: 5,379 ft.

Bottom perforation: 5,929 ft.

## AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following five wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Tar Sands Federal 14-30-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

GMB Q-30-8-17	API: 43-013-50532	SHL: NESW Sec. 30-T8S-R17E BHL: SWSW Sec. 30-T8S-R17E
GMB R-30-8-17	API: 43-013-50533	SHL: NESW Sec. 30-T8S-R17E BHL: SWSE Sec. 30-T8S-R17E
Tar Sands Federal 11-30-8-17 UT20847-04440	API: 43-013-31732	NESW Sec. 30-T8S-R17E
Tar Sands Federal 13-30-8-17 UT20847-04407	API: 43-013-31637	SWSW Sec. 30-T8S-R17E\
Tar Sands Federal 15-30-8-17 UT20847-04441	API: 43-013-31874	SWSE Sec. 30-T8S-R17E

Insufficient 80% annulus cement bond in Confining Zone. RTS: June 13, 2011: Reviewed and approved by the EPA.

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

### **Reporting of Noncompliance:**

- 1) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 2) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- 3) (Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

# Tar Sands Federal #14-30

Initial Production: 16.4 BOPD,  
11.2 MCFPD, 91.3 BWPD

Spud Date: 12/13/96

Put on Production: 4/3/00  
GL: 5300' KB: 5313'

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (293.58')

DEPTH LANDED: 292.78' GL

HOLE SIZE: 12-1/4"

CEMENT DATA: 120 sxs Premium cmt, est 2 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 145 jts. (?)

DEPTH LANDED: 6100'

HOLE SIZE: 7-7/8"

CEMENT DATA: 340 sk Ilibond mixed & 320 sxs thixotropic

CEMENT TOP AT: 902' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5#/M-50 lb/g.

NO. OF JOINTS: 170 jts. (5233.21')

NO. OF JOINTS: 19 jts. (601.54') (2 7/8" J-55)

TUBING ANCHOR: 5844.75'KB

NO. OF JOINTS: 1 jts. (31.47')

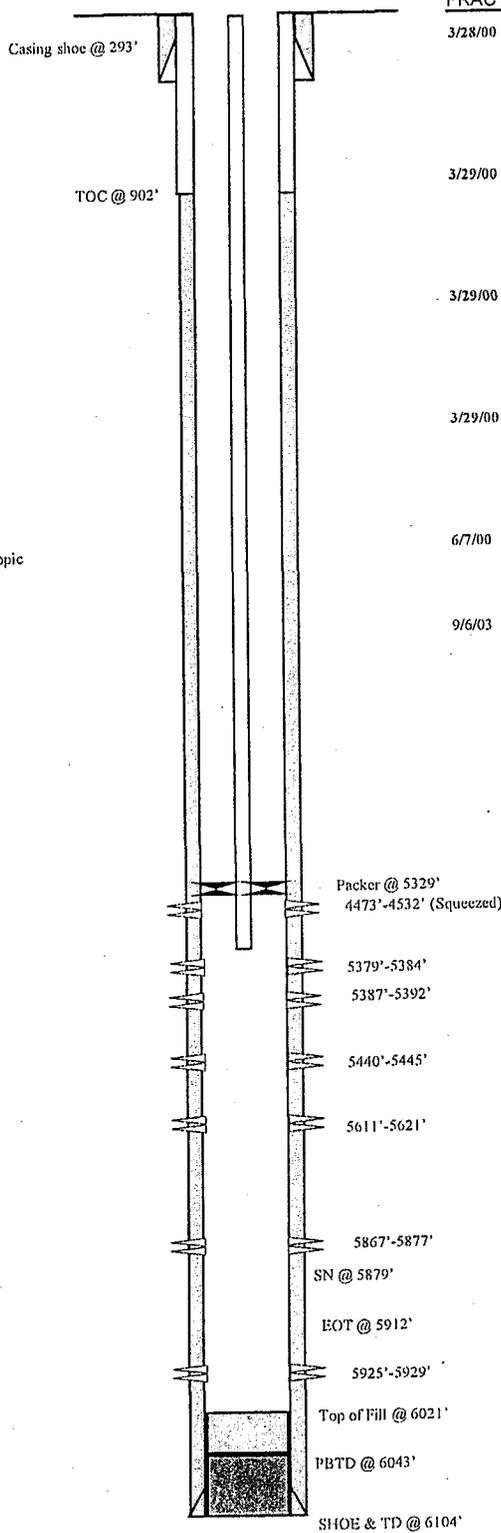
SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5879.03'KB

NO. OF JOINTS: 1 jts. (31.30')

TOTAL STRING LENGTH: BOT @ 5911.88' W/10'KB

### Proposed Injection Wellbore Diagram



### FRAC JOB

3/28/00	5867'-5929'	Frac CP sands as follows: 73,475# of 20/40 sand in 531 bbls of Viking I-25 fluid. Hole filled w/132 bbls. Breakdown @ 3170 psi, treated @ avg rate of 31.4 bpm w/ avg press of 2300psi. ISIP-2290 psi, 5-min 2019 psi.
3/29/00	5611'-5621'	Frac LODC sand as follows: 71,674# of 20/40 sd in 497 bbls of Viking I-25. Breakdown @ 3657 psi. Treated @ avg rate of 32 bpm w/avg press of 2400 psi. ISIP-2320 psi, 5-min 2119 psi.
3/29/00	5379'-5445'	Frac A sand as follows: 66,298# of 20/40 sd in 451 bbls of Viking I-25. Breakdown @ 4000 psi. Treated @ avg rate of 31.9 bpm w/avg press of 2370 psi. ISIP-2170 psi, 5-min 2021 psi.
3/29/00	4523'-4532'	Frac GB sand as follows: 81,163# of 20/40 sd in 544 bbls of Viking I-25. Breakdown @ 3935 psi. Treated @ avg rate of 27.5 bpm w/avg press of 2200 psi. ISIP-2354 psi, 5-min 2178 psi.
6/7/00	4523'-4532'	Squeeze GB sand as follows: Pump 100 sk Class "G" cmt. @ 2.5 bpm @ 600 psi. Drill out cmt and pressure test to 500 psi for 15 min.
9/6/03		Tubing Leak. Update rod and tubing details.

### PERFORATION RECORD

3/28/00	5867'-5877'	4 JSPF	40 holes
3/28/00	5925'-5929'	4 JSPF	16 holes
3/29/00	5611'-5621'	4 JSPF	40 holes
3/29/00	5379'-5384'	4 JSPF	20 holes
3/29/00	5387'-5392'	4 JSPF	20 holes
3/29/00	5440'-5445'	4 JSPF	20 holes
3/29/00	4523'-4532'	4 JSPF	36 holes

**NEWFIELD**

Tar Sands Federal #14-30  
755 FSL 1930 FWL  
SESW Section 30-T8S-R17E  
Duchesne Co, Utah  
API #43-013-31711; Lease #UTU-74869



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**APR 12 2012**

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 -- Box 3630  
Myton, Utah

**RECEIVED**

**APR 18 2012**

**DIV. OF OIL, GAS & MINING**

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT20847-09444  
Well: Tar Sands Federal 14-30-8-17  
SESW Sec. 30-T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-31711

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) April 2, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20847-09444.

As of the date of this letter, Newfield is authorized to commence injection into the Tar Sands Federal 14-30-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,395 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

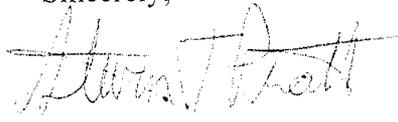
Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

You may reach Ms. Roberts by telephone at (303) 312-6211 or (800) 227-8927, extension 312-6211.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20847-09444.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,



*for* Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



*Printed on Recycled Paper*

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74869
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> TAR SANDS FED 14-30
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013317110000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0755 FSL 1930 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 30 Township: 08.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/20/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 3:10 PM on  
04/20/2012. EPA # UT20847-09444

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 07, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/23/2012	

# Tar Sands Federal 14-30-8-17

Spud Date: 12/13/96  
 Put on Production: 4/3/00  
 GI: 5300' KB: 5313'

Initial Production: 16.4 BOPD,  
 11.2 MCFPD, 91.3 BWPD

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293.58')  
 DEPTH LANDED: 292.78' GI.  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sss Premium cmt. est 2 bbls to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6100')  
 DEPTH LANDED: 6104'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 340 sk Hibond mixed & 320 sss thixotropic  
 CEMENT TOP AT: 902' per CBL

### TUBING

SIZE/GRADE/WT.: 2-7/8" M-50 / 6.5#  
 NO. OF JOINTS: 145jts. (4459.9')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4469.9' KB  
 CE @ 4474'  
 TOTAL STRING LENGTH: EOT @ 4478' W/10'KB

### FRAC JOB

3/28/00 5867'-5929' **Frac CP sands as follows:**  
 73,475# of 20-40 sand in 531 bbls of Viking I-25 fluid. Hole filled w/132 bbls. Breakdown @ 3170 psi, treated @ avg rate of 31.4 bpm w/ avg press of 2300psi. ISIP-2290 psi, 5-min 2019 psi

3/29/00 5611'-5621' **Frac LODC sand as follows:**  
 71,674# of 20-40 ad in 497 bbls of Viking I-25. Breakdown @ 3657 psi. Treated @ avg rate of 32 bpm w/avg press of 2400 psi. ISIP-2320 psi, 5-min 2119 psi

3/29/00 5379'-5445' **Frac A sand as follows:**  
 66,298# of 20-40 sd in 451 bbls of Viking I-25. Breakdown @ 4000 psi. Treated @ avg rate of 31.9 bpm w/avg press of 2370 psi. ISIP-2170 psi, 5-min 2021 psi.

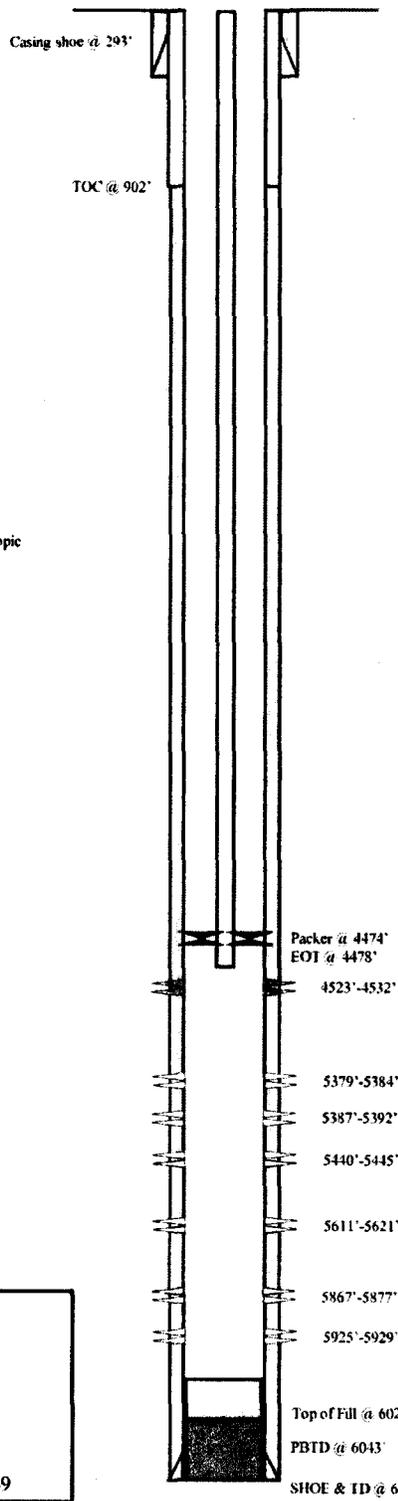
3/29/00 4523'-4532' **Frac GB sand as follows:**  
 81,163# of 20-40 sd in 544 bbls of Viking I-25. Breakdown @ 3935 psi. Treated @ avg rate of 27.5 bpm w/avg press of 2200 psi. ISIP-2354 psi, 5-min 2178 psi

6/7/00 4523'-4532' **Squeeze GB sand as follows:**  
 Pump 100 sx Class "G" cmt @ 2.5 bpm @ 600 psi. Drill out cmt and pressure test to 500 psi for 15 min.

9/6/03 **Tubing Leak** Update rod and tubing details.

03/20/12 **Convert to Injection Well**

03/29/12 **Conversion MIT Finalized** - update tbg detail



### PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
3/28/00	5867'-5877'	4 JSPP	40 holes
3/28/00	5925'-5929'	4 JSPP	16 holes
3/29/00	5611'-5621'	4 JSPP	40 holes
3/29/00	5379'-5384'	4 JSPP	20 holes
3/29/00	5387'-5392'	4 JSPP	20 holes
3/29/00	5440'-5445'	4 JSPP	20 holes
3/29/00	4523'-4532'	4 JSPP	36 holes

**NEWFIELD**

Tar Sands Federal 14-30-8-17  
 755 FSL 1930 FWL  
 SESW Section 30-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-31711; Lease #UTU-74869